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HANDBOOK OF INTERNATIONAL ALLOY COMPOSITIONS AND DESIGNATIONS VOLUME II—SUPERALLOYS



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**HANDBOOK OF INTERNATIONAL ALLOY
COMPOSITIONS AND DESIGNATIONS**

VOLUME II

SUPERALLOYS

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December 1978

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FOREWORD

This handbook is the second of a series intended to cover all metals and alloys that are available internationally.

The overall objective is to provide reference books to identify the chemical composition and standards and specifications which exist for the wide variety of metals and alloys in use throughout the modern world. Through the use of an alphanumeric alloy index, the user may quickly locate a specific alloy composition and other relevant standards data for this material, or he may search for a general or particular alloy system.

The handbook is organized in a manner to clearly shown the relationship of alloys and standards of one country with similar alloys and standards of other countries. The information presented is for guidance purposes only. This handbook is not intended to be used as a reference in purchase specifications, nor should it be used to supersede any standards or specifications. Under no circumstances should this handbook be taken as an authority to use material in lieu of the designers specifications. It may, however, aid in selecting and judging alternative materials.

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HANDBOOK OF INTERNATIONAL ALLOY COMPOSITIONS AND DESIGNATIONS

VOLUME II—SUPERALLOYS

ABSTRACT

This handbook was compiled from data collected from many sources in an effort to bridge the nomenclature gap on superalloys produced and used in various countries of the world. A superalloy is defined as an alloy based on nickel, cobalt, iron, or nickel plus iron, that has been developed for high performance applications involving relatively high stresses and temperatures generally above 540 C (1000 F), where resistance to oxidation and other environmental attack is required. The primary purpose of the handbook is to identify and conveniently interrelate the compositions, alloy names, designations and standards of one country with the compositions, alloy names, designations, and standards of other countries for superalloys.

In addition to equating the chemical compositions for these materials, the handbook relates compositions to product forms, standards, producing companies, common names, and applications. The handbook also lists some basic physical and mechanical properties for the better known alloys.

INTRODUCTION

The first volume of this international alloy handbook series was devoted to titanium and titanium alloys. This second is concerned with superalloys.

For the purposes of this handbook, a superalloy is defined as an alloy whose composition is based on nickel, cobalt, iron or nickel plus iron, that has been developed for high performance applications involving relatively high stresses and temperatures generally above 540 C (1000 F), where resistance to oxidation and other environmental attack is required. These alloys also include chromium as an alloying constituent. This definition was intended to exclude those iron- and nickel-base alloys which have been recognized by the Alloy Casting Institute as corrosion and heat-resistant casting alloys. All of the American Iron and Steel Institute Type 300 and 400 Series stainless steels also have been excluded. These alloys will be covered separately in a later handbook.

Inherent to this definition is the understanding that superalloy development resulted from the direct need for more heat-resistant materials in military aircraft engines just prior to and during the early years of World War II. In the United Kingdom, the development of the Whittle aircraft gas turbine created a need for sheet and bar materials which were more creep resistant than the best available austenitic stainless steels. As a result, the nickel-base Nimonic 75 and 80 superalloys came into being. In summary, similar needs resulted in development of the alloy Tinidar,

the basis of the alloy called A-286 in the U.S. In the U.S., the need for heat-resistant aircraft engine turbosupercharger blades spawned the development of an investment casting process for producing these in cobalt-base compositions such as Vitallium and X-40.

Since the early 1940's, superalloy development has been paced by the increasing demands of advancing gas turbine technology. However, in addition to aircraft, marine, industrial, and vehicular gas turbines, superalloys are now used in space vehicles, rocket engines, experimental aircraft, nuclear reactors, submarines, steam power plants, petrochemical equipment, and other high-temperature applications.

GENERAL COMPARISONS

In order to provide some background data and generalized property comparisons among superalloys, it is convenient to repeat some of the classic observations as recently recited by R. W. Fawley in his overview chapter of the text *The Superalloys*, edited by C. T. Sims and W. C. Hagel, published by Wiley-Interscience, a division of John Wiley and Sons, New York, in 1972.^(a)

Physical Properties

In gas turbine applications, the physical properties of greatest interest are density, expansion coefficient, and thermal conductivity. These data for unalloyed nickel, cobalt, and iron are compared in Table 1.

TABLE 1. PHYSICAL PROPERTIES OF NICKEL, COBALT, AND IRON

Element	Density, g/cm ³	Expansion Coefficient at RT, 10 ⁻⁶ /C	Thermal Conductivity at RT, cal/cm ² /cm/C/sec	Crystal Structure at RT	Melting Point, C
Ni	8.90	13.3	0.22	FCC	1453
Co	8.85	13.8	0.17	HCP	1495
Fe	7.87	11.7	0.18	BCC	1537

Low density in rotating components is important to minimize centrifugal stress. The density of most superalloys lies within the range of 7.76 to 9.28 g/cm³. As a class, iron-base alloys enjoy the advantage of lowest density while the cobalt-base alloys tend to be among the most dense. The reason for this is that tungsten and tantalum, which are both very heavy metals, are major additions in many cobalt alloys and contribute significantly to their densities which range from 8.59 to 9.28 g/cm³. Nickel-base alloys vary widely in alloy content and cover the full range of densities.

(a) See listing 72 in Information Sources on Page 10.

Gas turbines operate most efficiently with close tolerances and, thus, thermal expansion is an important design factor. In some cases, matched coefficients in mating components are necessary. In others, a low coefficient is preferred to minimize thermal stresses. Generally, nickel- and cobalt-base alloys have similar thermal expansion coefficients which are lower than those of austenitic iron-base alloys.

High thermal conductivity in superalloys is desirable to dissipate heat and minimize temperature gradients. The thermal conductivity of superalloys is only 10 to 30 percent that of pure nickel, cobalt, or iron, due to the effect of extensive alloying. Generally, iron-base alloys are slightly more conductive than cobalt-base alloys and nickel-base alloys span the range of each.

Oxidation and Corrosion Resistance

In the gas turbine industry, oxidation is defined as the reaction of an alloy with oxygen in the presence of combustion products from a clean fuel, i.e., free of such contaminants as sulfur, sodium, and vanadium. Good oxidation resistance is derived by the formation of a tight, continuous surface scale that acts as a diffusion barrier and resists spalling on thermal cycling. In general, nickel-chromium alloys of high aluminum content, e.g., 713 C and B-1900, are considered to have excellent oxidation resistance due to their ability to form protective oxides based on Cr_2O_3 and Al_2O_3 . Most cobalt-base alloys have somewhat less oxidation resistance than nickel alloys. Minor additions of yttrium, lanthanum, and cerium have been found to significantly improve the oxidation resistance of nickel-, cobalt-, and iron-base alloys.

Hot corrosion, on the other hand, refers to an aggressive attack resulting from the combined effects of oxidation plus reactions with sulfur and other contaminants which may be present. Hot corrosion in gas turbines proceeds by a complex and yet controversial series of reactions. One view, for instance, is that Na_2SO_4 forms and dissolves the protective oxide to allow inward movement of sulfur into the base metal where it reacts with chromium to precipitate internal sulfides.

Hot corrosion resistance is related at least to the chromium content in both nickel- and cobalt-base alloys. For instance, most cobalt alloys contain a higher proportion of chromium. The net result is that cobalt alloys, as a group, have better hot corrosion resistance than nickel alloys. Even in relatively nonresistant alloys, however, severe hot corrosion does not occur above about 980 C where Na_2SO_4 volatilizes. Therefore, above this temperature, hot corrosion tends not to occur and oxidation predominates.

Alloy Design Fundamentals

Nickel-Base Alloys

Historically, the wrought Nimonic 75 and 80 nickel-base alloys were among the first superalloys developed. Based on the 80Ni–20Cr composition, an important characteristic of these was the use of aluminum and titanium to achieve age-hardening by precipitation of the gamma prime (γ') phase, i.e., the face-centered-cubic (FCC), coherent intermetallic phase $\text{Ni}_3(\text{Al}, \text{Ti})$. Later wrought alloys derived improved creep strength by incorporating molybdenum and tungsten additions as both solid solution and carbide-forming strengtheners.

Some wrought alloys also are used in sheet form. Hastelloy X is perhaps the best known of these and is a solid-solution strengthened alloy used to make combustion cans and afterburners in a wide variety of turbines.

One result of complexing nickel with a variety of strengtheners is to decrease fabricability. Fortunately, in the 1950's, vacuum investment casting practices were developed which allowed the production of cast nickel alloys having greater hot strength than the best wrought nickel alloys. A great number of these are presently available. In-100, 713 C, B-1900, Udimet 500, and Rene 77 are among the most widely used. These alloys consist of a FCC solid-solution matrix, carbides, and the γ' phase. They are strengthened principally by aluminum, titanium, columbium, and tantalum which combine with nickel to form the γ' . Cobalt raises the γ' solvus temperature and thus improves temperature capability. Molybdenum, tungsten, and chromium are important solid-solution strengtheners. Chromium, molybdenum, and tantalum also form a series of carbides which impart grain-boundary strengthening. Aluminum and chromium contribute oxidation resistance while chromium and titanium are effective in improving hot corrosion resistance. A delicate compositional balance is needed in many of these complex alloys to achieve the desired properties while maintaining resistance to the formation of phases in service which might weaken or embrittle the alloy.

Cobalt-Base Alloys

In contrast to nickel where wrought superalloys were the first to be developed, the first cobalt superalloy was the cast Vitallium alloy. Later modified to reduce its tendency for carbide precipitation and subsequent loss of ductility in service, it was soon superseded by the stronger, tungsten-containing X-40.

In cobalt-base systems, no intermetallic compound has yet been found which has the same degree of high-temperature utility as does the γ' phase in nickel-base superalloys. Consequently, none of the present high-temperature cobalt alloys rely on strengthening via the deliberate precipitation of intermetallics. Rather, only solid-solution strengthening and carbide precipitation are intentionally employed.

The principal solid-solution strengtheners are chromium, molybdenum, tungsten, columbium, and tantalum. Unfortunately, all of these metals also tend to increase the allotropic transformation temperature of the relatively less ductile, hexagonal-close-packed (HCP) form. For this reason, nickel and/or iron additions are used to stabilize the FCC structure.

The most important carbide formers are columbium, tantalum, tungsten, titanium, zirconium, chromium, and molybdenum. A wide variety of carbides has been identified and the specific type present depends both on alloy composition and on heat treatment.

Currently, the WI-52, Mar-M-509, and FSX-414 alloys are among the most widely used cast cobalt-base alloys. The rupture strengths of these are not competitive with those for the strongest nickel-base alloys at temperatures below about 870 C. Consequently, their chief application in gas turbines is for static components which operate at temperatures of typically 870 to 1040 C, e.g., turbine vanes. One key characteristic of cobalt alloys in turbine operations is that their greater resistance to hot corrosion can permit the use of lower grade fuels (e.g., higher in sodium) than can be tolerated with certain nickel-base alloys.

Two wrought cobalt-base alloys which have found widespread application are S-816 and L-605. More recently, Haynes Alloy 188 was developed as a sheet material which combines the hot strength of L-605 with improved oxidation resistance and ductility in service.

Iron-Base Alloys

The 16-25-6 (Cr-Ni-Mo) alloy was the earliest iron-base superalloy to find use in aircraft gas turbines where it remained as the favored forged disc alloy for many years. By the 1950's, several newer precipitation-hardened alloys appeared which offered higher strengths and remain in use today. These include Discaloy, A-286, and V-57.

These alloys contain about 15 percent chromium for improved corrosion resistance plus about 25 percent nickel to stabilize the austenite. Molybdenum is used as a solid-solution strengthener and small additions of aluminum and titanium are used for precipitation hardening. These wrought alloys have a maximum use temperature of about 730 C due to a tendency toward phase instability at higher temperatures. The stability can be improved by substituting nickel for some of the iron, giving a stronger, more highly alloyed material. This has been accomplished in nickel-iron alloys such as Inconel 901, D-977, and Inconel 718.

STRUCTURE AND FORMAT OF THE SUPERALLOY HANDBOOK

Data Acquisition

Data for this handbook were obtained from a variety of sources which are listed on pages 10-20. Every effort was made to identify all alloys of current commercial significance. In addition, however, many older compositions were also included in the belief that applications for these still exist or that alternative materials may become desirable.

Alloy Classification and Computerized Format

A computer and a special alphanumeric nomenclature of chemical composition were used as aids in methodically sorting and classifying alloy compositions. For classification purposes, all superalloys were first grouped by chemical composition into one of the following five main groups and two subgroups used by Simmons^(a):

- Group 1. Ferritic (Martensitic) Stainless Steels
- Group 1A. Age Hardening Alloys of Group 1
- Group 2. Chromium, Nickel, Iron Alloys
- Group 2A. High Manganese Modifications of Group 2
- Group 3. Chromium, Nickel, Cobalt, Iron Alloys
- Group 4. Nickel Base Alloys
- Group 5. Cobalt Base Alloys

(a) See listing 67 in Information Sources on Page 10.

Within each of these groups, all alloy compositions were then arranged alphanumerically using the chemical symbols of the alloy constituents (e.g., Al, B, Ce, Co, etc.) in alphabetical order followed immediately by a number representing the nominal content of that chemical element in weight percent. The abbreviation "bal", for balance, was used to indicate the principal alloy ingredient and was followed immediately by a number representing the content of that ingredient. With this arrangement, the composition of the familiar Nimonic 75 alloy would read as follow:

Cr19.5,Fe4,Ni/Bal75,Ti2.4

This format provides a methodical approach in grouping together all alloys of similar composition by mechanical computer sorting and also provides a common denominator for the alloys of all countries. To cope with the controversially different names and symbols of columbium (Cb) and niobium (Nb), the combined symbol Cb/Nb was used in the computerized format.

Handbook Structure

The handbook is structured so the user can readily identify the superalloy compositions, standards, and specifications from various countries in various ways. For the purpose of this handbook, a standard is a document which usually establishes engineering practices, test methods or procedures. A specification is a document which defines performance requirements, their associated tests, and quality and packaging provisions and is usually used as a procurement document.

For an overview of the entire handbook structure, the reader is first referred to the complete listing of the tables, appendixes, and indexes which is shown in the Table of Contents. A synopsis of these is given in the paragraphs which follow.

Detailed Chemical Composition

Table 2 is a master list of the world's superalloys. Every superalloy identified is contained on this list which is comprised of seven alphanumerically arranged groups and sub-groups. Each alloy is identified by an index number. The table also includes chemical composition details and the major impurity elements (where available), the common name(s) or designation(s), "company" and country codes, one prime country standard, the Unified Numbering System (UNS) standard designation, available mill forms, and a brief description of the alloy's characteristics or typical application.

Country and Company Codes

The country codes are listed in Table A1 of the Appendix. The two letter coding arrangement used is from the widely used United States Department of Defense Country Code System. The company codes are listed in Appendixes A2 and A3, and are arranged in alphabetical and numerical order. This system was used for many of the proprietary alloys in an attempt to identify the patentee, assignee, or developer of the material. The company name may represent a source for the alloy but not necessarily so and, in most cases, does not represent the only source.

Alloy Indexes

Four complete indexes to the master superalloy list of Table 2 are presented at the back of this volume.

The first is a listing, in alphabetical order, of the proprietary alloy designations, common trade names, and standards and specifications according to originating groups, e.g., AECMA, ASTM, etc.

The second is a country code listing which groups all alloys of a given country together and presents these in alphabetical order according to the country's code letters.

The third is a company code listing which groups all alloys of a given company together and presents these in numerical order according to the company's code number.

The fourth is alphanumerical by national standard numbers and national standard alloy designations.

Equivalent Alloy Standards and Selected Alloy Property Data

Table 3 contains a list of all superalloys for which one or more standards or specifications was found to exist and groups and identifies those standards and specifications by country of origin.

Table 4 shows some limited physical and mechanical property data for a selected number of the more widely used alloys. These data are included merely to indicate (1) the magnitude of range in properties displayed by these materials, and (2) an approximation of the effects of alloying additions on these properties.

Unified Numbering System

The Unified Numbering System (UNS) is being developed jointly by the U.S. Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM). Ultimately, the UNS intension is to provide a means of "correlating many nationally (North America) used numbering systems currently administered by societies, trade associations, and individual users and producers of metals and alloys"⁽⁸⁸⁾. In its latest publication⁽⁸⁷⁾, the UNS has established a schematic system for 15 series of numbers representing 15 groups of metals and alloys. Each UNS number consists of a single letter prefix followed by five digits. For example, the UNS Number AXXXXX designates a group consisting of aluminum and aluminum alloys.

The selected superalloys appearing in this handbook fall into four different UNS material groups and may have prefixes of K, N, R, and S. The prefixes K, N, R, and S represent the following UNS number series:

KXXXXX number series: Miscellaneous Steels and Ferrous Metals

NXXXXX number series: Nickel and Nickel Alloy

RXXXXX number series: Reactive and Refractory Metals and Alloys

SXXXXX number series: Heat and Corrosion Resistant (Stainless Steels)

The Unified Numbering System⁽⁸⁷⁾ cross indexes all U.S. standards and specifications with each UNS alloy number. These data for superalloys are shown in Appendix A4.

Typical International Superalloys

The typical superalloys of commercial international interest within various countries with their local nomenclature are shown in Tables 5 through 16 as follows:

- Table 5. Typical Superalloys Offered in Austria
- Table 6. Typical Superalloys Offered in Czechoslovakia and Poland
- Table 7. Typical Superalloys Specified by the European Economic Community (Euronorm Proposed Standards)
- Table 8. Typical Superalloys Offered in France
- Table 9. Typical Superalloys Offered in West Germany
- Table 10. Typical Superalloys Specified (temporarily) by the International Organization for Standardization (ISO)
- Table 11. Typical Superalloy Offered in Italy
- Table 12. Typical Superalloys Offered in Japan
- Table 13. Typical Superalloys Specified by Sweden
- Table 14. Typical Superalloys Offered in the Union of Soviet Socialist Republics
- Table 15. Typical Superalloys Offered in the United Kingdom
- Table 16. Typical Superalloys Offered in the United States

Current International Superalloy Standards and Specifications

The current international standards and specification numbers and titles covering superalloys are shown in the following tables 17 through 30.

- Table 17. Current Czechoslovakian and Polish Standards Covering Superalloys
- Table 18. Current European Economic Community (Euronorm) Standards Covering Superalloys
- Table 19. Current French and European (AECMA) Standards Covering Superalloys
- Table 20. Current West German Standards Covering Superalloys
- Table 21. Current ISO (International Organization for Standardization) Standards Covering Superalloys
- Table 22. Current Japanese Standards Covering Superalloys
- Table 23. Current Royal Swedish Air Board Specifications Covering Superalloys
- Table 24. Current Union of Soviet Socialist Republics Standard Numbers Covering Soviet Superalloys
- Table 25. Current United Kingdom Standards Covering Superalloys
- Table 26. Current US Advanced Material Information (AMI) Data Sheets Covering Superalloy Materials
- Table 27. Current US Aerospace Materials Specifications (AMS) Covering Superalloys
- Table 28. Current US American Society for Testing and Materials (ASTM), American National Standard Institute (ANSI), and American Society of Mechanical Engineers (ASME) Standards or Specifications Covering Superalloys
- Table 29. Current American Welding Society (AWS) Standards Covering Superalloy Welding Rods
- Table 30. Current US Military (MIL) Specifications Covering Superalloys

United States Standards and Specifications of Superalloys According to the Applicable Forms of the Material

- Table 31. Correlation of United States Standards or Specifications of Commercial Superalloys According to the Applicable Material Form

Standard Organizations and Cyrillic Alphabet Transliteration System

Selected Standard Organizations of the world are listed in Appendix A5, and provides information such as name, address, and acronyms used.

In order that a consistent system of cyrillic alphabet transliteration be used for Soviet alloy designations, the United States Board and Geographic Names System has been adopted. This system is very widely used and MCIC has used it in previous alloy handbooks. In computer indexing, a consistent system is necessary. The transliteration system is shown in Appendix A6 as well as the Russian names for the chemical elements.

National Standards for Superalloys

For the convenience of the user, all the National standards and National Standard Designations are given in Appendixes A7 and A8, along with the common names, applicable form, related UNS number, and nominal composition.

Appendix A7 is arranged alphanumerically by the standard number. Whereas, Appendix A8 is arranged alphanumerically by nominal composition, this enables one to determine the various public standards or public alloy designations of the world for a given alloy composition.

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Volume IV has four sections on superalloys.

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 - United Kingdom Section
 - French Section
 - German Section
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TABLE 2. MASTER LIST OF SUPERALLOYS

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP I — FERRITIC (MARTENSITIC) STAINLESS STEELS															
AL 4.5	CR20.FE74.4.4.TI0.5.Y2030.5					20						0.5	4.5		74.4
1	INCOLOY ALLOY MA956**	INCOLOY MA956													
C010	CR13.FE/BAL76.3.W0.7														
2	WEEKSTOFF 1430 LN														
C06	CR10.5.CU1.25.FE/BAL06.W04.75.N	PYROMET X-12	0.12	0.90	0.25	10.5		6.0	4.75						
3															
CR11.5	CU2.FE/BAL02.W02.75.NI0.3.N														
4	LAPELLOY C		0.20-0.25	0.80	0.25	11-12	0.30		2.75						
5	CARPENTER LAPELLOY C		0.20-0.25	0.65-1.00	0.50 MAX.	11-12	0.50 MAX.		2.5-3.0						
6	HECLA H2.G.T.4		0.17	1.0	0.5	11.5			0.6		0.2			0.3	BAL. (56.2)
7	TURBOTHERM 20 HMB		0.20			11.5			0.6		0.35 + TA				BAL. (71)
8	SAE J467.(LAPELLOY C)	LAPELLOY C	0.22	0.80	0.25	11.5	0.30		2.75						BAL. (82)
9	419		0.25	1.0	0.30	11.5	0.50		0.5	2.5					BAL. (83)
10	CNS4 17134		0.17-0.23	0.5-1.0	0.25-0.60	10.6-12.5	0.3-0.0		0.0-1.2	0.3-0.6					BAL. (85.6)
11	418	410	0.20	1.0	0.50	12.5									BAL. (82.8)
12	ALLECHENY 418 SPECIAL	410	0.15-0.20			12-14	1.0-2.2		0.5 MAX.	3.0					BAL. (82.0)
13	JETHETE M.160	JETHETE M.160	0.15	1.25 MAX	0.60 MAX	12	1.25		1.0 MAX.						BAL. (82.7)
14	SAE J467.(422H)	422H	0.85	0.04	0.40	12.0	0.20		2.25	1.7					BAL. (82)
15	SAE J467.(422H) (CAST)	422H	0.26	1.00	0.40	13.0			2.50	1.5					BAL. (82)
16	AC-284	MODIFIED 422 SS.	0.24	1.0	0.40	12	1.0		2.25	1.0				0.22	BAL. (82)
17	422H	422H	0.20	0.04	0.25	12	0.20		2.25	1.70					BAL. (82)
18	422	422	0.20-0.25	1.0 MAX.	0.75 MAX.	12-14	0.5-1.0		0.75-1.25	0.75-1.2					BAL. (83.0)
19	LESCALLOY 422 S.S.	422	0.22	0.75	0.30	12	0.75		1.0	1.0					BAL. (83.8)
20	CARPENTER 636 ALLOY	422	0.20-0.25	1.0 MAX	1.0 MAX.	12-14	0.5-1.0		0.75-1.25	0.75-1.2					BAL. (83.8)
21	SAE J467.(LAPELLOY)	LAPELLOY	0.20-0.25	1.0 MAX.	0.75 MAX.	11.5-13.5	0.5-1.0		0.75-1.25	0.75-1.2					BAL. (83.8)
22	SAE J467.(422)	422	0.20-0.25	1.0 MAX.	0.75 MAX.	11.5-13.5	0.50-1.0		0.75-1.25	0.75-1.2					BAL. (83.8)
23	LAPELLOY/ALSI 619	LAPELLOY/ALSI 619	0.25-0.35	1.0	0.25	11-12	0.50 MAX.		2.5-3.0						BAL. (83)
24	CARPENTER LAPELLOY	LAPELLOY	0.25-0.35	0.95-1.25	0.50 MAX.	11-12	0.50 MAX.		2.5-3.0						BAL. (83)
25	SAE J467.(LAPELLOY)	LAPELLOY/ALSI 619	0.30	1.0	0.25	12	0.30		2.75						BAL. (83)
26	UNITEMP 1430 HV	CHE, LAPELLOY/ALSI 61	0.25-0.35	1.05	0.30	11-12	0.50 MAX.		2.5-3.0						BAL. (83)
27	TURBOTHERM 20 HMB	422	0.20			12			1.0	0.5					BAL. (86.2)
28	TURBOTHERM 20 HW		0.20			12			1.0						BAL. (86.8)
29	BOFORS 28046		0.20			12			1.2						BAL. (86.0)
30	TURBOTHERM 20 H		0.20			12			1.2						BAL. (86.0)

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COUNTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP I - FERRITIC (MARTENSITIC) STAINLESS STEELS								
AL4-5-CR28-FE74-4-Ti0.5-Y2030.5	1 INCOLOY ALLOY HA956**	INCOLOY HA956	Y2030.5	UK			SM+PL	GAS TURBINE ENGINE COMBUSTION CHAMBERS.
CO10-CR13-FE/BAL76.3-M00.7	2 WERKSTOFF 1.4930 LN			GY	1.4930 LM		CASTINGS	
CO6-CR10.5-CUL.25-FE/BAL66-M04.75-M	3 PROMET X-12	PROMET X-12	CUL.25-M8.00	US			WROUGHT FORMS	
CR11.5-CU2-FE/BAL92-M02.75-Ni0.3-M	4 LAPELLOY C	LAPELLOY C	CUL-M8.06	US			BI-BA-ST	TURBINE SHAFTS, COMPRESSOR WHEELS, BUCKETS.
5 CARPENTER LAPELLOY C		LAPELLOY C	CUL-75-2.25-M8.06-0.10	US			BI-BA-ST+M	COMPRESSOR WHEELS, BUCKETS, BOLTS, BLADES, SHAFTS.
CR11.5-FE/BAL56.2-M00.6-M8/C80.2-Ni0.07-V0.2	6 HECLA M-6.1-4	HECLA M-6.1-4	V0.2-M0.07	UK			WROUGHT FORMS	
CR11.5-FE/BAL71-M00.6	7 TURBOTHERM 20 MMB		V0.25	AU			WROUGHT FORMS	
CR11.5-FE/BAL82-M02.75-Ni0.3-M	8 SAE J467 (LAPELLOY C)	LAPELLOY C	CUL-M8.06	US			WROUGHT FORMS	COMPRESSOR DISCS, SHAFTS.
9 419			V0.4	US			WROUGHT FORMS	
CR12.5-FE/BAL03-M00.5-Mi0.5-V0.4-M2.5				US			WROUGHT FORMS	
CR11.5-FE/BAL85.6-MM1-M01-Mi0.5-M0.45	10 CHS4 17134		V0.2-0.5-S0.83M-P0.035M.	C2	CHS4 17134		WROUGHT FORMS	
CR12.5-FE/BAL82.6-MM1-M3	11 418			US			WROUGHT FORMS	
12 ALLECHEMY 410 SPECIAL				US			WROUGHT FORMS	JET ENGINE AND HIGH PRESSURE STEAM VALVES.
CR12-FE/BAL82.7-M01-Mi1.25-V1	13 JETMETE M-160	JETMETE M-160		UK			WROUGHT FORMS	
CR12-FE/BAL82-M02.25-Mi0.2-V0.5-M1.7	14 SAE J467 (422M)	422M	V0.50	US			WROUGHT FORMS	
15 SAE J467 (422M) (CAST)		422M	V0.50	US			WROUGHT FORMS	
16 AG-954	MODIFIED 422 SS.		V0.25	US			WROUGHT FORMS	
17 422M			V0.5	US			CAST, BA+FC	
CR12-FE/BAL63.6-M01-Mi0.7-V0.25-M1	18 422	422, AISI 422, 616	V0.2-0.5-P0.04M-S0.03M.	US	AMS 5655	S42200	BI-BL-ST+M, SHAPES	BUCKETS, BLADES/STEAM TURBINES, BOLTING.
19 LESSCALLOY 422 S, S.		422, AISI 422, 616	V0.25	US	AMS 5655	S42200	WROUGHT FORMS	GAS TURBINE AND JET ENGINE PARTS.
20 CARPENTER 636 ALLOY		422, AISI 422, 616	V0.2-0.5	US	AMS 5655	S42200	BI-BA-ST+M, SPEC. SHAPES	STEAM TURBINE BUCKETS, BLADES TO 11400F/760C.
21 AISI 422		422, AISI 422, 616	V0.15-0.30	US	AMS 5655	S42200	BI-BA+FC	BUCKETS, BLADES/STEAM TURBINES, BOLTING.
22 SAE J467 (422)		422, AISI 422, 616	V0.15-0.30	US	AMS 5655	S42200	WROUGHT FORMS	BUCKETS, BLADES/STEAM TURBINES, BOLTING.
CR12-FE/BAL63-MM1-M02.75-Mi0.3-V0.25	23 LAPELLOY AISI 619	LAPELLOY AISI 619	V0.25	US	ASTM A-565	S42300	BI-BA+ST	STEAM TURBINE BUCKETS AND BLADES.
24 CARPENTER LAPELLOY		LAPELLOY	V0.2-0.3	US	ASTM A-565	S42300	WROUGHT FORMS	JET ENGINE WHEELS, SHAFTS, STEAM TURBINE BLADES.
25 SAE J467 (LAPELLOY)		CHELAPELLOY, AISI 61	V0.12	US	ASTM A-565	S42300	WROUGHT FORMS	TURBINE BUCKETS AND JET ENGINE BLADES.
26 UNITEMP 1430 MV			V0.25	US			WROUGHT FORMS	
CR12-FE/BAL66.2-M01.0	27 TURBOTHERM 20 M		V0.30	AU	1.4935 OIM	S42200	WROUGHT FORMS	
28 TURBOTHERM 20 MV			V0.30	AU	1.4922 OIM	S42200	WROUGHT FORMS	
29 80FORS 2R06				SM			WROUGHT FORMS	TURBINE COMPONENTS, STEAM TURBINE BLADES.
30 TURBOTHERM 20 M				AU	1.4928 OIM	S42200	WROUGHT FORMS	

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT														
LINE	ALLOY NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP I - FERRITIC MARTENSITIC STAINLESS STEELS (Continued)														
31	AI51 615	0.17	0.40	0.28	13	2.0		0.20	2.95			0.15 MAX.		BAL. (81-2)
32	GREEK ASCOLLOY AI51 615	0.15-0.20	0.50 MAX.	0.50 MAX.	12-14	1.8-2.2		0.5 MAX.	2.5-3.5					BAL. (81)
33	GREEK ASCOLLOY AI51 615	0.15-0.20	0.50 MAX.	0.50 MAX.	12-14	1.8-2.2			2.5-3.5					BAL. (81)
34	CARPENTER METROLLOY 5615	0.15	0.3	0.3	13	2.0			3.0			0.12		BAL. (81)
35	FIRTH GREEK ASCOLLOY	0.15	0.50 MAX.	0.30	13	2.0		0.5 MAX.	2.5-3.5					BAL. (81)
36	JOSEPH STAINLESS 615	0.15-0.20	0.50 MAX.	0.30	12-14	2.0			2.75					BAL. (81)
37	UNITEMP 1415 HN	0.15-0.20	0.50 MAX.	0.50 MAX.	12-14	1.8-2.2		0.50 MAX.	2.5-3.5			0.15 MAX.		BAL. (81)
38	GREEK ASCOLLOY AI51 615	0.15-0.20	0.50 MAX.	0.50 MAX.	12-14	1.8-2.2		0.50 MAX.	2.5-3.5			0.15 MAX.		BAL. (81)
39	AMS 5909	0.15	0.40	0.30	13	2.0		0.15	3.0				SH 0.05H	BAL. (81)
40	SAP 1467 GREEK ASCOLLOY	0.15-0.20	0.50 MAX.	0.50 MAX.	12-14	1.8-2.2		0.50 MAX.	2.5-3.5			0.15 MAX.		BAL. (81)
41	AMS 5616 GREEK ASCOLLOY (CAST)	0.15-0.20	1.0 MAX.	1.0 MAX.	12-14	1.8-2.2		0.50 MAX.	2.5-3.5					BAL. (81)
GROUP II - FERRITIC MARTENSITIC STAINLESS STEELS (Continued)														
42	AMS 5354	0.15-0.20	1.0 MAX.	1.0 MAX.	12-14	1.8-2.2		0.50 MAX.	2.5-3.5					BAL. (81)
GROUP IA -- AGE--HARDENING STAINLESS STEELS OF GROUP I														
43	AI51 634	0.13	0.75	0.35	15-5	4.5		2.95						BAL. (77)
44	AMS 3554 AI51 634 (HRT.)	0.10-0.15	0.50-1.25	0.50 MAX.	15-16	4.5		2.5-3.25						BAL. (78.05)
45	AMS 3554 AI51 634 (ASTM)	0.10	0.80	0.60	15.0	4.2		2.3						BAL. (78.4)
46	AMS 3554 AI51 634 (ASTM)	0.10	0.80	0.60	15.0	4.2		2.3						BAL. (77.15)
47	PYROMET 350	0.08-0.11	0.50-1.25	0.50 MAX.	16-17	4.5		2.5-3.25						BAL. (68)
48	CONSERVATORY *	0.60	8.5	0.4	22									BAL. (68)
GROUP II -- CHROMIUM, NICKEL, IRON ALLOYS														
49	AI51 634	0.12-0.17	0.30 MAX.	0.25 MAX.	13.5-14.5	0.3-0.7		4.5-5.5						BAL. (67)
50	AMS 5748	0.12-0.17	0.30 MAX.	0.25 MAX.	13.5-14.5	0.3-0.7		4.5-5.5						BAL. (67)
GROUP II -- AGE--HARDENING STAINLESS STEELS OF GROUP I														
51	AI51 634	0.12-0.17	0.30 MAX.	0.25 MAX.	13.5-14.5	0.3-0.7		4.5-5.5						BAL. (67)
52	UNITEMP 212 *	0.05-0.15	0.05	0.15	15-17	23-27				0.6	4.0	0.15	0.06	BAL. (53.9)
53	AI51 634	0.04	1.0	0.73	14.7	26.1						0.15		BAL. (55)
54	AMS 1650	0.04	1.0		14.7	26						0.15		BAL. (55)
55	UNITEMP 1875	0.04	1.0		14.7	26						0.15		BAL. (55)
GROUP II -- AGE--HARDENING STAINLESS STEELS OF GROUP I														
56	AI51 634	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
57	ASTM B 425	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
58	ASTM B 425	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
59	ASTM B 425	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
60	ASTM B 163	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
61	ASTM B 163	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
62	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
63	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
64	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
65	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
66	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
67	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
68	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
69	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
70	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)
71	ASTM B 825	0.05 MAX.	1.0 MAX.	0.5 MAX.	19.5-23.5	38-46		2.5-3.5				0.20 MAX.		BAL. (30)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	CANOPY CODE	CTRY CODE	PRIME STANDARD	RELATED UNS NUMBER	FORMS	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP I -- FERRITIC (MARTENSITIC STAINLESS STEELS) (Continued)									
CR13,FE/BAL 61.2+M12+W3									
31	ALSI 615	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5616	S41800	BA+FG	COMPRESSOR BLADES, VANES AND TURBINE DISCS.
32	GREEK ASCOLOY / ALSI 615	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5616	S41800	BA+FG	COMPRESSOR BLADES, VANES AND TURBINE DISCS.
33	CARPENTER METROL 5615	GREEK ASCOLOY / ALSI 615		C-0042	US	AMS 5616	S41800	BA+FG	CARPENTER METROL 5615
34	FIRTH GREEK ASCOLOY	GREEK ASCOLOY / ALSI 615		C-0042	US	AMS 5616	S41800	BA+FG	COMPRESSOR WHEELS, BLADES AND FASTENERS.
35	JOINTLESS 615	GREEK ASCOLOY / ALSI 615		C-0042	US	AMS 5616	S41800	BA+FG	STEAM AND GAS TURBINE PARTS.
36	JOINTLESS 615	GREEK ASCOLOY / ALSI 615		C-0072	US	AMS 5616	S41800	BA+FG-RINGS	RINGS FOR JET ENGINES, BLADES, WHEELS, BOLTS.
37	AMS 5616	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5616	S41800	BA+FG-RINGS	SHROUVE, DUCTS, CASES, OXIDATION RESIST TO 1000F.
38	AMS 5617	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5617	S41800	BA+FG-RINGS	MELO WIRE FOR ALLOY 8F SIMILAR COMPOSITION.
39	SAE J467	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5617	S41800	BA+FG-RINGS	COMPRESSOR WHEELS AND BLADES. TO 1800F/530C.
40	AMS 5616	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5616	S41800	BA+FG-RINGS	COMPRESSOR WHEELS AND BLADES. TO 1800F/530C.
41	AMS 5354	GREEK ASCOLOY / ALSI 615		STO.	US	AMS 5354	S41800	BA+FG-RINGS	COMPRESSOR WHEELS AND BLADES. TO 1800F/530C.
CR13,FE/BAL 66-M01									
42	TURBOTHERM 15M				AU				JET ENGINE PARTS AND GAS TURBINE BLADES.
CR14,FE/BAL 65.5+M00.5									
43	STYRIA RKM				AU				JET ENGINE PARTS AND GAS TURBINE BLADES.
CR15.5,FE/BAL 77.45+M02.85+M14.5+N0.4									
44	AM 355,ALSI 634	AM 355		C-0066	US	AMS 5743	S35500	WROUGHT FORMS	COMPRESSOR BLADES, AIRCRAFT STRUCTURAL PARTS.
45	AM 355,ALSI 634	AM 355		C-0042	US	AMS 5547	S35500	WROUGHT FORMS	COMPRESSOR BLADES.
46	AM 355,ALSI 634(CAST)	AM 355		C-8171	CN	AMS 5547	S35500	CASTINGS	COMPRESSOR BLADES.
47	AM 355,ALSI 634	AM 355		C-0042	US	AMS 5554	S35500	WROUGHT FORMS	COMPRESSOR BLADES.
48	AM 355,ALSI 634	AM 355		C-0066	US	AMS 5554	S35500	WROUGHT FORMS	COMPRESSOR BLADES.
49	AM 355,ALSI 634	AM 355		C-0066	US	AMS 5554	S35500	WROUGHT FORMS	COMPRESSOR BLADES.
CO13,CR14.5,FE/BAL 67-V0.4									
49	AFC-77	AFC-77		C-8034	US	AMS 5748	K65770	BA+FG-RINGS+M	C000 CORROSION AND STRENGTH TO 1100F/593C.
50	AMS 5748	AFC-77		STO.	US	AMS 5748	K65770	BA+FG-RINGS+M	C000 CORROSION AND STRENGTH TO 1100F/593C.
AL-CR15,FE/BAL 55-M0,N130									
51	ATV R				FR				TURBINE AND GAS ENGINE PARTS.
AL-CR15,FE/BAL 55-M0,N130									
52	UNITEMP 212				US				JET ENGINE AND GAS TURBINE PARTS.
53	UNITEMP 212				US				JET ENGINE AND GAS TURBINE PARTS.
54	UNITEMP 212				US				JET ENGINE AND GAS TURBINE PARTS.
55	UNITEMP 212				US				JET ENGINE AND GAS TURBINE PARTS.
AL-CR15,FE/BAL 55-M126.1-T12-26									
56	INCOLOY ALLOY 825	INCOLOY ALLOY 825		C-0067	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
57	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
58	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
59	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
60	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
61	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
62	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
63	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
64	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
65	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
66	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
67	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
68	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
69	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
70	ASTM B 425	INCOLOY ALLOY 825		STO.	US	ASTM B 425	N06025	BA+SH+PL+PI+T	HEAT EXCHANGER CONDENSER TUBING, STRESS-CORROS.
AL-CR15,FE/BAL 53-MN1.4-M01.25-NI26-Ti1.6-V0.3									
71	VACUUM THERM 7-20				GY	1.4943 LN	K66286		

GROUP IA -- AGE--HARDENING STAINLESS STEELS OF GROUP

GROUP II -- CHROMIUM, NICKEL, IRON ALLOYS

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION=====													
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	GROUP II - CHROMIUM, NICKEL, IRON ALLOY (Continued)					TUNGSTEN	COLUMBIUM	WEIGHT PERCENT
						CHROMIUM	NICKEL	COBALT	MOLYBDENUM	ALUMINUM			
0.2-B	CR15-FE/BAL53-MN1.4-MO1.25-NI26-TI2-15-V0.3		0.00 MAX.										
72	ALTEMP A-206	A-206-AISI 660	0.00 MAX.	1.35			26		1.2			2.0	
73	FIRTH A-286	A-286-AISI 660	0.05	1.5	0.75		26		1.25			2.2	
74	LESSALLOY A-286	A-286-AISI 660	0.05	1.5			26		1.2			2.2	
75	EASTERN MO. A-286	A-286-AISI 660	0.05	1.5	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
76	NICKELVAC A-206	A-286-AISI 660	0.05	1.5	0.75		26-27		1.0-1.5			1.7-2.25	
77	WELDON A-286	A-286-AISI 660	0.05	1.5	1.0 MAX.		26-27		1.0-1.75			1.9-2.3	
78	CARPENTER A-206	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.7-2.2			0.003-0.010	
79	UNITEMP A-206	A-286-AISI 660	0.00 MAX.	1.5	0.6		26-27		1.2			0.004	
80	MITEM OA 1525 LVA	A-286-AISI 660	0.00 MAX.	1.5	1.0 MAX.		26		1.3			0.006	
81	ASIS 660	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26		1.0-1.5			1.9-2.35	
82	ASTM A-453-GR40E 660	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
83	ANS 5731	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
84	ANS 5731-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
85	ANS 5732-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
86	ANS 5732-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
87	ANS 5733-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
88	ANS 5733-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
89	ANS 5736-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
90	ANS 5737-CONSUM. MELT	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
91	ANS 5804	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
92	ANS 5805-AVIC. MELT.	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
93	WERKSTOFF 1.4944 LM	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
94	ASTM A-630-GR40E 660	A-286-AISI 660	0.08 MAX.	1.0-2.0	1.0 MAX.		26-27		1.0-1.5			1.9-2.35	
95	SUEC J467-A-206	A-286-AISI 660	0.08 MAX.	1.0 MAX.	0.4		26		1.3			1.9-2.35	
96	ALTEMP A-206	A-286-AISI 660	0.05	1.5	0.5		26		1.3			2.15	
97	ALTEMP A-206	A-286-AISI 660	0.05	1.5	0.5		26		1.3			2.15	
98	ALTEMP A-206	A-286-AISI 660	0.05	1.5	0.5		26		1.3			2.15	
99	ALTEMP A-206	A-286-AISI 660	0.05	1.5	0.5		26		1.3			2.15	
100	WERKSTOFF 1.4944 LM	A-286-AISI 660	0.06	1.5	1.0 MAX.		26		1.25			2.0	
101	WERKSTOFF 1.4990 OIN	A-286-AISI 660	0.09	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
102	OXIM X 5 MICRO 26 15	A-286-AISI 660	0.06	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
103	ACOR FE-PA 92-HT	A-286-AISI 660	0.06	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
104	ACOR FE-PA 92-HT	A-286-AISI 660	0.06	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
105	OTD 5026	A-206-AISI 660	0.06	1.2	0.4-1.0		25.5		1.3			2.1	
106	ATVS MD	A-286-AISI 660	0.06	1.2	0.4-1.0		26		1.25			2.0	
107	AFMOR 7 6 MCT 25	A-206-AISI 660	0.08	1.2	0.4-1.0		26		1.25			2.0	
108	WERKSTOFF 1.4980 OIN	A-206-AISI 660	0.06	1.2	0.4-1.0		26-27		1.0-1.5			1.9-2.3	
109	ACMA FE-PA 92-HT	A-286-AISI 660	0.08	1.2	0.4-1.0		26-27		1.0-1.5			1.9-2.3	
110	WERKSTOFF 1.4944 LM	A-206	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
111	WERKSTOFF 1.4944 LM	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
112	VICUMEN 7-20	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26		1.2			2.1	
113	UGAR ALLOY A-206	A-286-AISI 660	0.05	1.40	0.40		26		1.25			2.15	
114	BS MR 51	A-206-AISI 660	---	1.5	0.7		25.5		1.2			2.0	
115	BS MR 52	A-286-AISI 660	---	1.5	0.7		25.5		1.2			2.0	
116	CORACIO 4980	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
117	MHL 00	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
118	MARKER 4990	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
119	RAUT 4900	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
120	X-N 26 15 W	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
121	X-N 26 15 W	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
122	THEMION 4900 VAKUMELT	A-206	0.08 MAX.	1.2	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
123	LASTE 4900	A-286	0.08 MAX.	1.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
124	TURBOTHERM 1525 T	A-206	0.08 MAX.	1.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
125	ENZ119(PR)-1.4944 LM	A-236	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
126	ENZ119(PR)-1.4944 LM	A-206	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
127	ENZ119(PR)-1.4944 LM	A-206	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
128	ENZ119(PR)-1.4944 LM	A-286	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
129	ENZ119(PR)-1.4944 LM	A-286	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
130	BURMAN F1706 50	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	
131	BURMAN F1706 50	A-286-AISI 660	0.08 MAX.	2.0 MAX.	1.0 MAX.		26-27		1.0-1.5			1.9-2.3	

130.25	8	CR40.0FE/BAL52.2	25.00	127.17	20.5	0.00	MAX.	0.35	MAX.	14.0	16.0	0.75	MAX.	14.0	16.0	27	25.5	24.5	1.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---</
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TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	QTY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP II - CHROMIUM, NICKEL, IRON ALLOYS (Continued)									
AL 0.25-8-CR15-FE/BAL53-NM1.4-MOI.25-N126-712.15-V8.3									
72	ALTEMP A-286	A-286	V0.3	C-0066	US	AMS 5525	K66286	BA-FG, SM-ST, RINGS	TURBINE BLADES, FASTENERS, SUPERCOMPONENT PARTS.
73	FIRTH A-286	A-286	V0.3	C-0083	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	GAS TURBINE DISCS, JET ENGINE COMPONENTS.
74	WESTERN A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, NOZZLES, JET ENGINE PARTS.
75	NICKELVAG A-286	A-286	V0.3	C-0107	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE COMPONENTS, TURBINE PARTS, FASTENERS.
76	NICKELVAG A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS AND BLADES, FASTENERS.
77	PANDEK VAG ARC	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE TURBINE BLADES, FASTENERS.
78	CARPENTER A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE BLADES, WHEELS, FASTENERS, AFTERBURNERS.
79	INTENTEMP A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE AND GAS TURBINE APPLICATIONS.
80	NITTEN DA 1525 LVA	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	JET ENGINE AND GAS TURBINE APPLICATIONS.
81	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
82	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
83	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
84	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
85	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
86	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
87	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
88	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
89	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
90	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
91	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
92	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
93	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
94	SAE J467-A-286	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
95	G-63	A-286	V0.3	C-0147	UK	AMS 5537	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
96	A-286	A-286	V0.3	C-0066	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS AND BLADES, AFTER-BURNERS.
97	ARLENGY A-286	A-286	V0.3	C-0085	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	HIGH TEMPERATURE PARTS, JET ENGINE PARTS.
98	ALLEGHENY A-286	A-286	V0.3	C-0066	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	AFTER-BURNERS, JET ENGINE PARTS.
99	RETI	A-286	V0.3	C-0160	GY	1-4980 DIN	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
100	WERKSTOFF 1-984 LN	A-286	V0.3	C-0160	GY	1-4980 DIN	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
101	WERKSTOFF 1-984 DM	A-286	V0.3	C-0160	GY	1-4980 DIN	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
102	GIN K 5 MGRIT 26 15	A-286	V0.3	C-0160	FR	2 6 NCT 25	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
103	AFNOR E-2 6 NCT 25	A-286	V0.3	C-0160	FR	FE-PA 92-MT	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
104	AEEMA FE-PA 92-MT	A-286	V0.3	C-0160	UK	DTD 5026	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
105	DTD 5026	A-286	V0.3	C-0160	UK	DTD 5026	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
106	ATMS M8	A-286	V0.3	C-0160	FR	2 6 NCT 25	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
107	AFNOR 2 6 NCT 25	A-286	V0.3	C-0160	FR	2 6 NCT 25	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
108	WERKSTOFF 1-980 DIN	A-286	V0.3	C-0160	GY	1-4980 DIN	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
109	WERKSTOFF 1-984 LN	A-286	V0.3	C-0160	GY	FE-PA 92-MT	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
110	WERKSTOFF 1-984 DM	A-286	V0.3	C-0160	GY	1-4980 DIN	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
111	AIR 3155-71	A-286	V0.3	C-0160	FR	FE-PA 92-MT	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
112	VACUOTERM 7-20	A-286	V0.3	C-0160	FR	FE-PA 92-MT	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
113	UCAR ALLOY A-286	A-286	V0.3	C-0160	UK	BS MR 51 52	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
114	3S MR 51	A-286	V0.3	C-0160	UK	BS MR 51 52	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
115	CDR400 4980	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
116	MAKER 4980	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
117	R40T	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
118	X-M 26 T-W	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
119	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
120	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
121	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
122	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
123	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
124	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
125	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
126	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
127	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
128	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
129	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
130	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
131	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
132	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
133	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
134	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
135	ANTIMIT 1525	A-286	V0.3	C-0160	UK	HR 51	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, BOLTING.
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136	ALTEMP A-286	A-286	V0.3	C-0066	US	AMS 5525	K66286	BA-FG, SM-ST, RINGS	TURBINE BLADES, FASTENERS, SUPERCOMPONENT PARTS.
137	FIRTH A-286	A-286	V0.3	C-0083	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	GAS TURBINE DISCS, JET ENGINE COMPONENTS.
138	WESTERN A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS, BLADES, NOZZLES, JET ENGINE PARTS.
139	NICKELVAG A-286	A-286	V0.3	C-0107	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE COMPONENTS, TURBINE PARTS, FASTENERS.
140	NICKELVAG A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE WHEELS AND BLADES, FASTENERS.
141	PANDEK VAG ARC	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE TURBINE BLADES, FASTENERS.
142	CARPENTER A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	TURBINE BLADES, WHEELS, FASTENERS, AFTERBURNERS.
143	INTENTEMP A-286	A-286	V0.3	C-0084	US	AMS 5525	K66286	BA-FG, SM-ST, T-RINGS	JET ENGINE AND GAS TURBINE APPLICATIONS.
144	NITTEN DA 1525 LVA	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	JET ENGINE AND GAS TURBINE APPLICATIONS.
145	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
146	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
147	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
148	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
149	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
150	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
151	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
152	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
153	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
154	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
155	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
156	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
157	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
158	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
159	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
160	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
161	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
162	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
163	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
164	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
165	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
166	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
167	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
168	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
169	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
170	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
171	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
172	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
173	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
174	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
175	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
176	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
177	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
178	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA-FG, SM-ST, PLAT-RINGS	GAS TURBINE APPLICATIONS.
179	ASTM A-453-GRDE 660	A-286	V0.3	C-0127	GY	1-4944 LN	K66286	BA	

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT																
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON	
GROUP II - CHROMIUM NICKEL IRON ALLOYS (Continued)																
AL0.25, CR13.5, FE34.4, MO6.2, NI42.7, TI2.5																
140	INCOLOY ALLOY 901	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0 MAX.	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
141	LESSCALLOY 901	INCOLOY ALLOY 901	0.05			12-18	40-45	1.0	5-7			2.4	0.35 MAX.	0.010-0.020	BAL. (34)	
142	UOINET 901	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
143	CARPENTER PYROMET 901	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
144	NICKELVAC 901	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
145	ANS 5660-COMVAC-MELT	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
146	ANS 5660-COMVAC-MELT	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
147	ALLEGHEY LUOLUM 901	INCOLOY ALLOY 901	0.05	1.5	0.6 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
148	HERKSTOFF 1.4090 OIN	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.6 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
149	AIR 9145-901	INCOLOY ALLOY 901	0.10 MAX.	1.0 MAX.	0.6 MAX.	11-14	40-45	1.0	5-7			2.35-3.10	0.35 MAX.	0.010-0.020	BAL. (34)	
150	UCAR ALLOY 901	INCOLOY ALLOY 901	0.05	0.45	0.60 MAX.	12-18	42.7		6.2			2.5	0.25	0.015	BAL. (34)	
151	RTG 0.2, 4662 LN	NIMON. 901, FE-PA99-MT	0.05	0.45	0.60 MAX.	12-18	43.5		6.0	4.0		3.0	0.3		BAL. (34)	
152	MERKSTOFF 2.4975 OIM	INCOL. 901, FE-PA99-MT	0.05	0.45	0.60 MAX.	12-18	43.5		6.0	4.0		3.0	0.3		BAL. (34)	
AL0.3, CR21, FE45, NI32, TI0.4																
153	MERKSTOFF 1.4076 OIM	INCOLOY ALLOY 000	0.04	1.2	0.5	21	32.5					0.4	0.4		45	
AL0.3, CR29.5, FE25.4, NI41, TI0.6																
154	INCOLOY ALLOY 004	INCOLOY ALLOY 004	0.05	0.75	0.30	29.5	41.0					0.60	0.30		BAL. (25.4)	
AL0.32, CU0.35, CR21, FE/BAL45.5, NI32.5, TI0.32																
155	INCOLOY ALLOY 000M	INCOLOY ALLOY 000M	0.05-0.10	1.5	1.0	19-23	30-35	1.5				0.15-0.60	0.15-0.60		BAL. (45)	
156	NICKAL C2	INCOLOY ALLOY 000M	0.05-0.10	1.5	1.0	19-23	30-35	1.5				0.15-0.60	0.15-0.60		BAL. (45)	
157	HCF 2H	INCOLOY ALLOY 000M	0.05-0.10	1.5	1.0	19-23	30-35	1.5				0.15-0.60	0.15-0.60		BAL. (45)	
158	ALLOY 800H	INCOLOY ALLOY 000M	0.05-0.10	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (45)	
AL0.35, CR15, FE/BAL52.3, NI41.25, NI25, TI1.0, V0.3																
159	HERKSTOFF 1.4949 OIN	INCOLOY ALLOY 000	0.06 MAX.	2.0 MAX.	1.0 MAX.	13.5-16.0	24-27		1.0-1.5			1.7-2.0	0.35 MAX.	0.003-0.010	BAL. (52.3)	
AL0.35, CR15, FE53.8, NI41.25, NI25.5, TI2.1, V0.3																
160	AFHOF 2.5 NCTO V 25	INCOLOY ALLOY 000	0.08 MAX.	1.5	0.7	15	25.5			1.25		2.1	0.35		53	
AL0.37, CR21, CU0.35, FE/BAL45.4, NI32.5, TI0.3																
161	PHOENIX R 800 M	INCOLOY ALLOY 000M	0.5-0.10			20	32					TI 5 X % C	0.2-0.5		BAL. (45.4)	
162	R 800 M	INCOLOY ALLOY 000M	0.5-0.10			20	32					TI 5 X % C	0.2-0.5		BAL. (45.4)	
AL0.38, CR21, FE46, NI32.5, TI0.38 0.23																
163	SANICRO 31	INCOLOY ALLOY 800	0.07 MAX.	0.55	0.5	21	31					0.35	0.35		BAL. (46)	
B-CO/BAL77, CR26.5, MO5, NI11.5																
164	INCOLOY ALLOY 800	INCOLOY ALLOY 800	0.07 MAX.	1.5 MAX.	1.0 MAX.	19-22	31-34					TI 5 X % C	0.2-0.5		BAL. (46)	
165	INCOLOY ALLOY 800	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
166	INCOLOY (REMANED 800)	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
167	ANS 5766	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
168	ANS 5971	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
169	ASTM B 163	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.60 MAX.	0.60 MAX.		BAL. (46)	
170	ASTM B 366	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
171	ASTM B 409	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
172	ASTM B 514	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
173	ASTM B 564	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
174	ASTM B 514	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
175	ASTM B 564	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
176	ASME SB163	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
177	ASME SB409	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
178	ASME SB409	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
179	MICRAL C	INCOLOY ALLOY 800	0.07	1.5 MAX.	1.0 MAX.	21	33.5					0.35	0.3		BAL. (46)	
180	AFHOF 25 MC 35 20	INCOLOY ALLOY 800	0.07	1.5 MAX.	1.0 MAX.	21	33.5					0.35	0.3		10 MAX.	
181	HERKSTOFF 2.4956 OIM	INCOLOY ALLOY 800	0.07	1.5 MAX.	1.0 MAX.	21	33.5					0.35	0.3		10 MAX.	
182	AT 30	INCOLOY ALLOY 800	0.10	1.5	1.0	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
183	MCF 2	INCOLOY ALLOY 800	0.10	1.5	1.0	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
184	HCF 2	INCOLOY ALLOY 800	0.10	1.5	1.0	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
185	ANSI M34.42 (INC. 800)	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
186	ANSI M34.15 (INC. 800)	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
187	ANSI M34.39 (INC. 800)	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	
188	ANSI M34.41 (INC. 800)	INCOLOY ALLOY 800	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-23	30-35					0.15-0.60	0.15-0.60		BAL. (46)	

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CITY CODE	PRIME COUNTRY	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP II - CHROMIUM, NICKEL, IRON ALLOYS (Continued)									
AL 0.25, CR13.5, FE34, Ni06.2, Ni42.7, Ti2.5									
140	INCOLOY ALLOY 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0067	US	ANS 5660	N08901	BA+FC	GAS TURBINE ROTORS. PARTS.
141	INCOLOY ALLOY 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0084	US	ANS 5660	N08901	BA+FC	INDUSTRIAL AND AIRCRAFT GAS TURBINE ROTORS.
142	INCOLOY ALLOY 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	GAS TURBINE DISCS AND PARTS.
143	CARPENTER PYROMET 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	GAS TURBINE COMPRESSOR ROTORS. DISCS AND HUBS.
144	NICKELVAC 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES AND DISCS.
145	ANS 5660/CON/VAC-NELT	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
146	ANS 5661/CON/VAC-NELT	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
147	ALLEMANY LUDON 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
148	WERKSTOFF 1.4896 DIN	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
149	WERKSTOFF 1.4896 DIN	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
150	UGAR ALLOY 901	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
151	RTG 8, 2.4662 LN	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
152	WERKSTOFF 2.4975 DIN	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
153	WERKSTOFF 1.4949 DIN	INCOLOY ALLOY 901	CU0.5 MAX.	C-0066	US	ANS 5660	N08901	BA+FC	TURBINE ROTORS, SHAFTS, BLADES, DISCS AND HUBS.
AL 0.3, CR21.5, FE45, Ni32.5, Ti0.4									
154	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	HIGH TEMPERATURE PROCESSING EQUIPMENT.
AL 0.3, CR29.5, FE25.4, Ni4.1, Ti0.6									
155	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	RESISTANT TO CARBURIZATION AND SULFIDATION.
AL 0.3, CR29.5, FE25.4, Ni4.1, Ti0.6									
156	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	RESISTANT TO CARBURIZATION AND SULFIDATION.
AL 0.3, CR29.5, FE25.4, Ni4.1, Ti0.6									
157	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	RESISTANT TO CARBURIZATION AND SULFIDATION.
AL 0.3, CR29.5, FE25.4, Ni4.1, Ti0.6									
158	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	RESISTANT TO CARBURIZATION AND SULFIDATION.
AL 0.3, CR29.5, FE25.4, Ni4.1, Ti0.6									
159	INCOLOY ALLOY 804	INCOLOY ALLOY 804	CU0.25	C-0067	US	ANS 5660	N08800	BA+FC	RESISTANT TO CARBURIZATION AND SULFIDATION.
AL 0.35, CR15.5, FE33, NiB/CB1.25, Ni25.5, Ti2.1, V0.3									
160	AFNOR Z 5 NCTD 25	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
AL 0.37, CR21.5, FE45, Ni32.5, Ti0.3									
161	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
AL 0.38, CR21.5, FE45, Ni32.5, Ti0.38									
163	SANICRO 31	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
164	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
165	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
166	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
167	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
168	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
169	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
170	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
171	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
172	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
173	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
174	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
175	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
176	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
177	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
178	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
179	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
180	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
181	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
182	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
183	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
184	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
185	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
186	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
187	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
188	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
189	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
190	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
191	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
192	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
193	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
194	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
195	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
196	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
197	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
198	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
199	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.
200	INCOLOY ALLOY 800H	INCOLOY ALLOY 800H	CU0.3	STD.	FR	2 5 NCTD 25	N08800	BA+FC	HIGHER CREEP PROPERTIES THAN R 800 ALLOY.

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT															
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CHROMIUM	SILICON	MANGANESE	CELEBON	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP II - CHROMIUM, NICKEL, IRON ALLOY (Continued)															
AL 0.30-CR11.2-FE/46-NI32.5-Ti0.30	189 ANSI M34-40(ING. 800)	INCOLOY ALLOY 800	19-23	1.0 MAX.	1.5 MAX.	0.01 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
190 ANSI M34-23(ING. 800)	INCOLOY ALLOY 800		19-23	1.0 MAX.		0.01 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
191 ANSI M34-24(ING. 800)	INCOLOY ALLOY 800		19-23	1.0 MAX.	1.5 MAX.	0.01 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
192 UCAR ALLOY 800	INCOLOY ALLOY 800		21	0.50	0.75	0.05	32-35					0.15-0.60	0.15-0.60		BAL. (46)
193 ALLOY 800	INCOLOY ALLOY 800		19-23	1.0 MAX.	1.5 MAX.	0.10 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
194 PHOENIX R 800	INCOLOY ALLOY 800		19-23	1.0 MAX.		0.07 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
195 304L (CORAFI)	INCOLOY ALLOY 800		19-23	1.0 MAX.	1.5 MAX.	0.10 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
196 304L (CORAFI)	INCOLOY ALLOY 800		19-23	1.0 MAX.	1.5 MAX.	0.10 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
197 ISO 908(AFT)	INCOLOY ALLOY 800H		19-23	1.0 MAX.	1.5 MAX.	0.05-0.10	30-35					0.15-0.60	0.15-0.60		BAL. (46)
198 ASTM B-407	INCOLOY ALLOY 800		19-23	1.0 MAX.	1.5 MAX.	0.10 MAX.	30-35					0.15-0.60	0.15-0.60		BAL. (46)
AL 0.4-B-CR11.2-FE/8AL61.2-MOI-3-NI23-Ti2.9	199 G10KH1H23T3NR		10.0-12.5	0.6 MAX.	0.6 MAX.	0.10 MAX.	21-25		1.0-1.6			2.6-3.2	0.6 MAX.	0.02 MAX.	BAL. (61.2)
AL 0.4-B-CR11.2-FE/8AL66.5-MI19-Ti2.9	200 G10KH1H23T3NR		10.0-12.5	1.0 MAX.	1.6 MAX.	0.10 MAX.	16-21					2.6-3.2	0.8 MAX.	0.008-0.020	BAL. (66.5)
AL 0.4-CR21-FE/8AL45.1-MHI-2-MI32.5-Ti0.4	201 OIM X 10 MICRALTI 32 20		21	0.5	1.2	0.08	32-5					0.4	0.4		BAL. (45.1)
202 THERMAX 4876			21	0.5	1.2	0.08	32-5					0.4	0.4		BAL. (45.3)
AL 0.5-CR11-FE/8AL67.5-MI19-Ti2	203 G108KH10R20T2		10-12	0.6 MAX.	2.0 MAX.	0.03 MAX.	18-20					1.5-2.5	1.0 MAX.		BAL. (67.5)
AL 0.5-CR16.3-FE/8AL76.3-MI6.2-Ti0.75	204 CN34 17351		15.5-17.0	0.9 MAX.	0.3-0.8	0.08 MAX.	5.5-7.0					0.5-1.0	1.0 MAX.		BAL. (76.2)
AL 0.58-CR21-FE46-MI32.5-Ti0.75	205 INCOLOY ALLOY 802		21.0	0.38	0.75	0.35	32-5					0.75	0.58		BAL. (46)
206 PHOENIX R 802	INCOLOY ALLOY 802		19-22			0.35-0.45	31-34					0.5-0.7	0.4-0.6		BAL. (46)
207 R802(X40MICRALTI32-20	INCOLOY ALLOY 802		19-22			0.35-0.45	31-34					0.5-0.7	0.4-0.6		BAL. (46)
AL 0.65-B-CR5.5-FE/8AL65.3-MHI-4-MI24.5-Ti2.25	208 GAMMALOY		5.5	0.40	1.40	0.03	24.5					2.25	0.65	0.003	BAL. (65.3)
AL 0.7-CR5.3-FE65-MI25-Ti2.3	209 INCONEL 425 *		5.3	0.7	1.2	0.05	25					2.3	0.7		65
AL 1.5-B-CR13-FE/8AL36.6-MOI-5-MI38-Ti2.5	210 CG-27		12.5-14.0	0.25 MAX.	0.25 MAX.	0.02-0.06	36.5-39.5		5-6			2.3-2.7	1.45-1.75	0.003-0.015	BAL. (36.6)
AL 1.2-CR16.5-FE34-MOI-3-Ti1.2	211 INCONEL 600		16.5			0.05	43.5 *CO	2.0	3.25			1.2	1.2	0.005	BAL. (34.3)
212 BS NR 11	MINOMIC PE 16		16.5				43.5 *CO	SEE NICKEL	3.3			1.2	1.2		BAL. (34)
AL 1.4-B-CR22.5-FE/8AL15.2-MOI-2-MI55.25-Ti2.4	213 CARPENTER PYROMET 31		22.5	0.10	0.10	0.04	55.25		2.0			2.4	1.4		BAL. ()
AL 1.4-CR17.8-FE/8AL49.7-MHI-7-MOI-2.5-MI23.6-Ti1.4-M1	214 TURBALOY 13		17.8	0.75	1.7	0.13	23.6		2.5	1.0		1.4	1.4		BAL. (49.7)
AL 1.4-CR18-FE/8AL39.3-MOI-3-MI35-Ti2.25	215 N-813		18			0.08	35		4.0			2.25	1.40		BAL. (39.3)
AL 1.5-B-CR13-FE/8AL36.6-MOI-5-MI38-Ti2.5	216 ANS 5633		12.5-14.0	0.25 MAX.	0.25 MAX.	0.02-0.06	36.5-39.5		5-6			2.3-2.7	1.45-1.75	0.003-0.015	BAL. (38.6)
217 ANS 5634	CG-27		12.5-14.0	0.25 MAX.	0.25 MAX.	0.02-0.06	36.5-39.5		5-6			2.3-2.7	1.45-1.75	0.003-0.015	BAL. (38.6)
AL 1.6-CR11.5-FE/8AL49.1-MI36-Ti1.6	218 AYS		11.5			0.15	36					1.6	1.6		BAL. (49.1)
AL 1.8-CO4-CR13-FE/8AL28.6-MOI-4-MI44-Ti3	219 PYROMET 860		12-16	1.0 MAX	1.0 MAX	0.10 MAX	40-45	3.5-4.5	5-7			2.75-3.75	0.75-1.50	0.008-0.012	BAL. (28.6)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL 0.36-CR21-FE-6.5-NI32.5-Ti2.5	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	PLATE, SHEET, PIPE, WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS. CORROSIVE AND HEAT RESIST. APPLICATION. FURNACE AND HEAT EXCHANGER PARTS.
190 ANSI N16-2.1(NI-6.5) 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
191 ANSI N16-2.1(NI-6.5) 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
192 UCAR ALLOY 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
193 ALLOY 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
194 PHENIX R 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
195 ISO 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
196 ISO 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
197 ISO 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
198 ISO 800	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
199 G110KMIIN237MR	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.4-CR11.2-FE/BAL61-2-N01.3-NI23-Ti2.9	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
200 G110KMIIN207R	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.4-CR11.2-FE/BAL66-5-NI19-Ti2.9	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
201 G110KMIIN207R	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.4-CR21-FE/BAL45-1-NI1.2-NI32.5-Ti0.4	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
202 G110KMIIN207R	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.5-CR11-FE/BAL67-5-NI19-Ti2	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
203 G110KMIIN207R	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.5-CR16-3-FE/BAL76-3-NI6-2-Ti0.75	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
204 G110KMIIN207R	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.5-CR21-FE-6.5-NI32.5-Ti0.75	ALLOY 800	ALLOY 800	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
205 INCOLOY ALLOY 802	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
206 PHENIX R 802	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
207 R802 INCOLOY ALLOY 802	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.65-8-CR05-5-FE/BAL65-3-NI1.4-NI24-5-Ti2.25	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
208 G110KMIIN207R	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 0.7-CR5-3-FE65-NI25-Ti2.3	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
209 INCONEL 425	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.5-CR13-FE/BAL38-6-M05-5-NI0.6-MI30-Ti2.5	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
210 G110KMIIN207R	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.2-CR16-5-FE34-M03-3-NI43.5-Ti1.2	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
211 UCAR ALLOY 16	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
212 BS NR 11	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.4-CR22-5-FE/BAL15-2-M02-NI0.1-NI55-25-Ti2.4	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
213 CARPENTER PYROMET 31	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
214 TURBALOY 13	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.4-CR18-FE/BAL39-3-M04-NI35-Ti2.25	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
215 M-813	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.5-CR13-FE/BAL38-6-M05-5-NI0.6-MI30-Ti2.5	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
216 AMS 5633	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
217 AMS 5634	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.6-CR11-5-FE/BAL49-1-NI36-Ti1.6	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
218 ATVS	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
AL 1.8-CR13-FE/BAL28-6-M06-NI44-Ti3	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.
219 PYROMET 860	ALLOY 802	ALLOY 802	CUB-75MAX, S0.15 MAX.	STO.	US	ASTM B-514	N08800	WROUGHT FORMS	FURNACE AND HEAT EXCHANGER PARTS.

GROUP II - CHROMIUM, NICKEL, IRON ALLOYS (Continued)															
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	PERCENT TITANIUM	ALUMINUM	BORON	IRON
AL1-8-CR15-FE27-MO4-NI45-TI3-M4															
220	ATSI 664	0-979, ATSI 664	0.06	0.25	0.20	14-9	44.3		4.05	3.65		3.8	1.05	0.81	27
221	ATG 9	0-979, ATSI 664	0.06			28	BAL. (45)	18				2.5	1.5		2.8 MAX.
222	0-979	0-979, ATSI 664	0.08 MAX.	0.75 MAX.	0.75 MAX.	14-16	42-48		3.0-4.5			2.7-3.3	0.75-1.30	0.088-0.816	27
223	ALTEMP 0-979	0-979, ATSI 664	0.08 MAX.	2.0 MAX.	1.8 MAX.	1-11	42-48		3.0-4.5			2.7-3.3	0.75-1.30	0.088-0.816	27
224	ANS 5709-COM/VAC-MELT	0-979, ATSI 664	0.08 MAX.	0.75 MAX.	0.75 MAX.	14-16	42-48		3.75-4.5			2.7-3.3	0.75-1.30	0.088-0.816	27
225	SAE J467-0-979	0-979, ATSI 664	0.06	0.25	0.20	14-9	44.3	4.05	3.75-4.50			3.8	1.05	0.81	27
226	SAE J467-0-979	0-979, ATSI 664	0.06	0.25	0.20	14-9	44.3		3.65			2.7-3.3	0.75-1.30	0.888-0.816	25-29
227	ALLEGHEMY 0-979	0-979, ATSI 664	0.08 MAX.	0.75 MAX.	0.75 MAX.	14-16	42-48		3.5-4.5	2.7-3.3		3.8	1.8	0.81	27
228	LESSCALLOY D-979	0-979, ATSI 664	0.04	0.75 MAX.		15	45		4.8						
AL1-CR11-FE/BAL52-MI35															
229	ATV S		0.15			11	35					1.8	1.8		BAL. (52)
AL1-CR19-FE/BAL54-5-MO2-NI24-TI2-25-M1															
230	CINIOUR		0.25			19	24.0		2.0	1.0		2.25	1.8		BAL. (50.5)
B-C60-01-CR15-FE/BAL55.3-MI23.5-TI1.6-M4.5															
231	C188KMI5H24%TR		0.08 MAX.	0.5-1.8	0.6 MAX.	14-16	22-25			4-5		1.4-1.8		0.885	BAL. (55.3)
B-C68-01-CR15-FE/BAL53-MB/CB8-11-NI19-W2.4															
232	C189KMI4N19V28R1		0.07-0.12	2.8 MAX.	8.6 MAX.	13-15	18-20			2.8-2.8	0.9-1.3			0.825	BAL. (63)
233	G109KMI4N19V28R		0.07-0.12	2.0 MAX.	8.6 MAX.	13-15	18-20			2.0-2.8	0.9-1.3			0.805	BAL. (64)
B-CR13.5-FE/BAL54-5-MN1.75-MO1.8-MI25-TI2-85															
234	M-545	M-545, ATSI 665	0.08 MAX.	1.25-2.8	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.825-0.812	BAL. (54.5)
235	WESTHOUSE W-545	M-545, ATSI 665	0.08 MAX.	1.25-2.8	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.825-0.812	BAL. (54.5)
236	ASTM A571-COM/VAC-MELT	M-545, ATSI 665	0.08 MAX.	1.25-2.8	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.825-0.812	BAL. (54.5)
237	AMS 5711-COM/VAC-MELT	M-545, ATSI 665	0.08 MAX.	1.25-2.8	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.825-0.812	BAL. (54.5)
238	ATSI 665	M-545, ATSI 665	0.08 MAX.	1.25-2.8	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.825-0.812	BAL. (54.5)
239	SAE J467-M-545	M-545, ATSI 665	0.03	1.65	0.80	13.5	2.6		1.75			3.8	0.15	0.02	BAL. (54.5)
240	ASTM A 453 GRADE 665	M-545, ATSI 665	0.08 MAX.	1.25-2.0	0.1-0.8	12-15	24-28		1.55-2.25			2.7-3.3	0.25 MAX.	0.01-0.07	BAL. (54.5)
241	SAE J467-(M-545)	M-545, ATSI 665	0.03	1.65	0.88	13.5	26.8		1.75			3.0	0.15	0.82	BAL. (54)
B-CR28-FE/BAL64-6-MN5-MO1-MB/CB2-MI5-M1															
242	CRH-170	(CAST) CRH-170	0.78	5.8	0.50	28	5.8		1.0	1.0	2.0			0.803	BAL. (64.6)
B-CR20-FE/BAL69-3-MN5-MO2-MB/CB2-MI5-M1-M2															
243	CRH-150	(CAST) CRH-150	1.80	5.0	0.50	20	5.8		2.0	2.8	2.0			0.803	BAL. (69.3)
B-CR20-FE25-NI46-M8															
244	VL7-45U	(CAST)	0.16			20	46			8.0				8.86	25
B-CR22-FE/BAL63-5-MN5-MO1-MB/CB1-MI5-M1															
245	CRH-60	(CAST) CRH-60	1.85	5.8	0.50	22	5.8		1.0	1.0	1.0			0.803	BAL. (63.5)
B-CR28-FE/BAL36-5-MO6-MI35															
246	RL-35-100 *	(CAST)	0.85	1.5	0.5	28	35		8.0					0.15	BAL. (36.5)
CO2-5-CR22-FE/BAL15-MN1.5-MO6.5-MB/CB2-MI45.5-SI11-M1															
247	MISTELLOY F	MISTELLOY F	0.85 MAX.	1-2	1.8 MAX.	21-23	44-47	2.5 MAX.	5.5-7.5	1.0 MAX.	1.8-2.5 +TA				BAL. (16)
248	ASTM B 436	MISTELLOY F	0.05 MAX.	1-2	1.8 MAX.	21-23	44-47	2.5 MAX.	5.5-7.5	1.8 MAX.	1.8-2.5 +TA				BAL. (16)
249	ASME SB436	MISTELLOY F	0.05 MAX.	1-2	1.0 MAX.	21-23	44-47	2.5 MAX.	5.5-7.5	1.0 MAX.	1.8-2.5 +TA				BAL. (16)
250	ASME SB436	MISTELLOY F	0.05 MAX.	1-2	1.0 MAX.	21-23	44-47	2.5 MAX.	5.5-7.5	1.0 MAX.	1.8-2.5				BAL. (16)
251	CRH-180	(CAST) CRH-180	0.75	5.8	8.50	23	5.0	5.8	1.0	1.8	2.8			0.883	BAL. (56.5)
CR-FE-MO-NT															
252	MENTOLE		CARBON			CHROMIUM	NICKEL		MOLYBDENUM						BAL. ()
253	MENTILE C		CARBON			CHROMIUM	NICKEL		MOLYBDENUM						BAL. ()
254	MENTILE F		CARBON			CHROMIUM	NICKEL		MOLYBDENUM						BAL. ()
CR-FE/BAL-NI															
255	UCME Q410		CARBON			CHROMIUM	NICKEL								BAL. ()
CR10-5-FE/BAL88-1-MO8-75-MB/CB0-45-V0-15															
256	448	448	8.12			18.5			8.75		0.45				BAL. (88.1)
CR11-5-BAL/FE85-MO-MB/CB-V															
257	JESSOP-SAVILLE G-46	G-46	0.16		8.38	11.5			1MOLYBDENUM		4MB/CB				BAL. (85)

TABLE 2. (Continued)

[illegible]

ALLOY NAME OR LINE ALLOY DESIGNATION		COMMON NAME OR DESIGNATION	CHEMICAL COMPOSITION,WEIGHT PERCENT										
CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON	
GROUP II - CHROMIUM, NICKEL, IRON ALLOYE (Continued)													
0.10-0.26	0.04-0.7	0.15-0.40	10.5-12.5	0.3-0.0		0.9-1.2	0.4-0.6					BAL. (86)	
0.17			11-5	0.70				0.25 +TA				BAL. (86.6)	
0.11-0.19	0.20-1.25	0.15-0.65	10-12	0.50-1.20		0.60		0.10-0.60				BAL. (86.7)	
0.20-0.25	0.4-0.7	0.2-0.5	11-12	0.4-0.0		0.9-1.2						BAL. (87)	
0.15-0.24	1.0 MAX.	0.60 MAX.	10-13	1.0		0.5-1.0						BAL. (87)	
0.10-0.23	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86)	
0.18-0.23	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86)	
0.10-0.23	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.18-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	
0.10-0.24	0.50-0.70	0.20-0.40	11.3-12.2	0.7-1.2		1.0-1.2						BAL. (86.4)	

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	CONOM NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY	PRIME STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP II - CHROMIUM, NICKEL (NON ALLOYS Continued)									
CR11.5	FE/BAL86.6.NI0.6.NB/C80.25.NI0.7.V0.3	258 WERKSTOFF 1.4934 LN	VO.25-0.35, SO.035N, P0.035	STD.	GY	1.4934 LN		WROUGHT FORMS	
CR11.5	FE/BAL86.6.NI0.6.NB/C80.25.NI0.7.V0.3	259 RNOO	VA.3.NI0.048	C-0168	GY	1.4914 LN		WROUGHT FORMS	
260	AECHA FE-PH36.1.4914L		VO.1-0.7, SO.025N, P0.03N	STD.	FR	Z18COV NB 11			
CR11.5	FE/BAL87.NI0.1.NI0.6.V0.3	261 WERKSTOFF 1.4924 LN	VO.25-0.35, SO.03N, P0.03N	STD.	GY	1.4924 LN		WROUGHT FORMS	
CR11.5	FE/BAL87.NI0.1.NI0.5.V0.4	262 AIR 9165-011	VO.1-0.7, SO.025N, P0.03N	STD.	FR	FE-PN 35		BA	TURBINE DISCS.
CR11.7	FE/BAL86.6.NI0.1.NI0.85.V0.3	263 WERKSTOFF 1.4934 LN	VO.25-0.35	C-0126	GY	1.4934 DIN		CASTINGS	
264	SEN 595/GX22CROV121		VO.25-0.35	STD.	GY	1.4931 DIN		CASTINGS	
265	G-X 22 CRNO V 121		VO.25-0.35	STD.	GY	1.4931 DIN		CASTINGS	
266	WERKSTOFF 1.4931 DIN		VO.25-0.35	STD.	GY	1.4931 DIN		CASTINGS	
CR11.7	FE/BAL86.6.NI0.1.NI0.85.V0.3	267 WERKSTOFF 1.4934 LN	VO.25-0.35	C-0184	GY	1.4923 DIN		WROUGHT FORMS	COMPONENTS FOR STEAM BOILERS AND TURBINES.
268	WTF 139V		VO.25-0.35	C-0172	GY	1.4923 DIN		WROUGHT FORMS	COMPONENTS FOR STEAM BOILERS AND TURBINES.
269	WTF 139V		VO.25-0.35	C-0172	GY	1.4923 DIN		WROUGHT FORMS	COMPONENTS FOR STEAM BOILERS AND TURBINES.
270	RNO NO V		VO.25-0.35	C-0168	GY	1.4923 DIN		WROUGHT FORMS	COMPONENTS FOR STEAM BOILERS AND TURBINES.
271	UAB STAINLESS 951		VO.25-0.35	C-0193	SM	1.4923 DIN		WROUGHT FORMS	PARTS FOR PIPE-LINES, BOILERS AND TURBINES.
272	TURBO THERM XN 28 NV		VO.25-0.35	C-0185	GY	1.4923 DIN		WROUGHT FORMS	PARTS FOR PIPE-LINES, BOILERS AND TURBINES.
273	VACUOTHERM 5-34		VO.25-0.35	C-0153	GY	1.4923 DIN		WROUGHT FORMS	PARTS FOR PIPE-LINES, BOILERS AND TURBINES.
274	NTS 5-5		VO.25-0.35	C-0151	GY	1.4923 DIN		WROUGHT FORMS	PARTS FOR PIPE-LINES, BOILERS AND TURBINES.
CR11.7	FE/BAL86.6.NI0.7.NB/C80.3.NI0.8.V0.4	275 WERKSTOFF 1.4914 LN	VO.1-0.7, NI0.03-0.49	STD.	GY	1.4914 LN		R00.8A.FG	
CR11.7	FE/BAL87.NI0.65.NB/C80.40.NI0.75.V0.22	276 FIRTH-VICKERS 448 ST. 448	VO.15-0.30	C-0094	UK			WROUGHT FORMS	AIRCRAFT GAS TURBINE DISCS.
CR12.5	FE/BAL71.9.NI15, TI0.6	277 HAYNES STELLITE 48		C-0156	US				
CR12.5	FE/BAL84.8.NI0.12.NI0.4	278 NTS-1			GY			WROUGHT FORMS	
CR12.5	FE/BAL84.8.NI0.12.NI0.4	279 NARNEDER F11	VO.25-0.35	C-0104	GY			WROUGHT FORMS	
CR12.5	FE/BAL83.5.NI0.75.NI2.5.NI.V0.3	280 RNOO NI N.154	VO.3.NI0.030	C-0160	GY			WROUGHT FORMS	TURBINE BLADES AND BOLTING, GAS TURBINE PARTS.
281	JETMETE N.154		VO.3.NI0.030	C-0148	UK			WROUGHT FORMS	GAS TURBINE DISCS AND BLADES.
282	JETMETE N.152		VO.3.NI0.030	C-0153	GY	1.4939 LN		WROUGHT FORMS	GAS TURBINE DISCS AND BLADES.
283	VACUOTHERM 5-38		VO.3.NI0.030	STD.	EU	1.4939 LN			
284	EN2277(PRI)1.4939 LN	AECHA FE-PN 37	VO.3.NI0.030	STD.	EU	1.4939 LN			
285	EN2277(PRI)1.4939 LN	AECHA FE-PN 37	VO.3.NI0.030	STD.	EU	1.4939 LN			
286	EN2277(PRI)1.4939 LN	AECHA FE-PN 37	VO.3.NI0.030	STD.	EU	1.4939 LN			
287	EN2277(PRI)1.4939 LN	AECHA FE-PN 37	VO.3.NI0.030	STD.	EU	1.4939 LN			
288	AECHA FE-PH37.1.4939LN	RNOO NI	VO.02-0.06, SO.025N, P0.030	STD.	FR	Z12CND 12		SM, ST	
289	WERKSTOFF 1.4939 LN		VO.25-0.40	STD.	GY	1.4939 LN			
CR12.5	FE/BAL84.7.NI0.1.NI0.6.V0.25.NI0.5	290 NTS-4	VO.25		GY			WROUGHT FORMS	
CR12.5	FE/BAL85.25.NI1.5.NI0.25.NI1.5	291 JETMETE N.153		C-0148	UK			WROUGHT FORMS	HIGH TEMPERATURE APPLICATIONS.
CR12.5	FE/BAL85.6.NI1.5.NI1.25.V0.3	292 JETMETE N.151	NI0.6.V0.3	C-0148	UK			WROUGHT FORMS	GAS TURBINE DISCS AND BLADES.
CR13.5	FE/BAL55.8.NI0.3.NI25	293 EN217(PRI)1.4943 LN	VO.045N, P0.025N, P0.03N	STD.	EU	1.4943 LN			
294	EN217(PRI)1.4943 LN		VO.045N, P0.025N, P0.03N	STD.	EU	1.4943 LN			

TABLE 2. (Continued)

ALLOY NAME OR ALLOY DESIGNATION		COMMON NAME OR DESIGNATION		CHEMICAL COMPOSITION, WEIGHT PERCENT												
LINE	TIME	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	MICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP II - CHROMIUM, NICKEL, IRON ALLOYS (Continued)																
CR13-5-FE/BAL55-8-M03-M125-T11-75	295	DISCALOY	DISCALOY-AISI 662	0.03 MAX.	0.6-1.5	0.4-1.0	12-15	24-28	---	2.5-3.5	---	---	1.55-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
296	DISCALOY 24	DISCALOY-AISI 662	DISCALOY-AISI 662	0.36	1.4	1.0	13-5	26.0	---	4.0	---	---	1.6	0.1	---	8AL. (55.8)
297	FIRTH DISCALOY	DISCALOY-AISI 662	DISCALOY-AISI 662	0.04 MAX.	---	---	13.6	25.0	---	3.0	---	---	1.56-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
298	DISCALOY-AISI 662	DISCALOY-AISI 662	DISCALOY-AISI 662	0.03 MAX.	0.5	---	13.6	25.0	---	3.0	---	---	1.56-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
299	AISI 662	DISCALOY-AISI 662	DISCALOY-AISI 662	0.03 MAX.	2.0 MAX.	1.0 MAX.	13.5-16.0	24-27	---	2.0-3.5	---	---	1.55-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
300	ASTM A-453, GRADE 662	DISCALOY-AISI 662	DISCALOY-AISI 662	0.08 MAX.	0.4-1.0	0.4-1.0	12-15	24-28	---	2.0-3.5	---	---	1.8-2.10	0.35 MAX.	0.001-0.01	8AL. (55.8)
301	ASTM A-638, GRADE 662	DISCALOY-AISI 662	DISCALOY-AISI 662	0.08 MAX.	1.5 MAX.	1.0 MAX.	12-15	24-28	---	2.5-3.5	---	---	1.55-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
302	ATVS 2	DISCALOY-AISI 662	DISCALOY-AISI 662	0.04	---	---	13.5	26	1.0	2.75	---	---	1.8	0.3	---	8AL. (55.8)
303	AFHOR Z 3 MCT 25	DISCALOY-AISI 662	DISCALOY-AISI 662	0.06 MAX.	1-2	0.50 MAX.	13.5-16.0	24-27	---	1.0-1.5	---	---	1.7-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
304	AFHOR Z 4 MCT 26	DISCALOY-AISI 662	DISCALOY-AISI 662	0.04	---	---	13.5	26	1.0	2.75	---	---	1.8	0.3	---	8AL. (55.8)
305	ACHA FE-PA 93 HT	DISCALOY-AISI 662	DISCALOY-AISI 662	0.06 MAX.	1-2	0.50 MAX.	13.5-16.0	24-27	---	1.0-1.5	---	---	1.7-2.0	0.35 MAX.	0.001-0.01	8AL. (55.8)
306	SAR 3467 (DISCALOY)	DISCALOY-AISI 662	DISCALOY-AISI 662	0.08 MAX.	0.50	0.80	13.5-16.0	24-27	---	2.75	---	---	1.75	0.07	0.005	9AL. (55.8)
307	SAR 3467 (DISCALOY)	DISCALOY-AISI 662	DISCALOY-AISI 662	0.08	0.50	0.80	13.5-16.0	24-27	---	2.75	---	---	1.75	0.07	0.005	9AL. (55.8)
308	EM2175(PR)1-4943 LM	DISCALOY-FE-PA 93-HT	DISCALOY-FE-PA 93-HT	0.06 MAX.	2.0 MAX.	1.0 MAX.	13.5-16.0	24-27	---	1.0-1.5	---	---	1.7-2.0	0.35 MAX.	0.003-0.010	8AL. (55.8)
309	WERKSTOFF 1.4943 LM	DISCALOY-FE-PA93-M	DISCALOY-FE-PA93-M	0.06	2.0 MAX.	1.0	13.5-16.0	24-27	---	1.0-1.5	---	---	1.7-2.0	0.35 MAX.	0.003-0.010	8AL. (55.8)

CR13-5-FE/BAL70-3-M01-5, M12-5, T10-5, V0-55-M1-5	310	CHS4 17331	---	0.07-0.15	0.4-1.0	0.2-0.8	12-15	11-14	---	0.7-1.5	1-2	---	---	---	---	8AL. (70.3)

CR13-FE/BAL70-2-M113-S11-3-M2-5	311	G-2	G-2	0.42	---	1.3	13	13	---	---	2.5	---	---	---	---	8AL. (70.2)
312	SAVILLE G-2	---	G-2	0.42	---	1.3	13	13	---	---	2.5	---	---	---	---	8AL. (70.2)

CR14-2, FC/OAL45-1-M136-T11-55-M3-2	313	CHS4 17335	---	0.12 MAX.	1-2	1.5 MAX.	13.5-16.5	34-38	---	---	2.7-3.7	---	1.2-1.9	---	---	8AL. (45)

CR14-7-FE/BAL54-7-M11-5, M01-2-M125-5, T11-8-V0-3	314	BS MR 251	---	---	1.5	---	14,7	25,5	---	1.2	---	---	1.8	---	---	8AL. (54.7)

CR14-8-FE/BAL67-8-M06-0.23-M112-9-S11-8-M2-5	315	WF 1000	---	0.38	0.52	1.84	14-8	12,9	---	0.23	2.5	---	---	---	---	8AL. (66.8)

CR14-9-FE/BAL51-M11-36-M127-4-S11-17-M4	316	ATV-3	ATV-3	0.35	1.36	1.17	14,9	27,4	---	---	4.0	---	---	---	---	8AL. (51)

CR14-CU2-5-FE/BAL71-1-M02-M19-5-T10-07	317	467	---	0.20	---	---	14	9,5	---	2.0	---	---	0.7	---	---	8AL. (71.1)

CR14-CU4-FE/BAL57-9-M06-M18-T10-6	318	REX 78	REX 78	0.01	0.8	0.7	14	18	---	4.0	---	---	0.6	---	---	8AL. (57.9)

CR14-FE/BAL52-4-M04-MB/CB4-M120-M4	319	S-495 *	S-495	0.45	0.55	0.6	14	20	---	4.0	4.0	4.0	---	---	---	8AL. (52.4)

CR14-FE/BAL66-8-M114-S11-5-M6	320	F.V.S.	F.V.S.	0.42	0.7	1.5	14	14	---	---	2.6	---	---	---	---	8AL. (66.8)

CR14-FE/BAL68-8-M08-32-M114-M2-9	321	G145MR14M142M	---	0.40-0.50	0.7 MAX.	0.8 MAX.	13-15	13-15	---	0.25-0.40	2.0-2.8	---	---	---	---	8AL. (68.8)

CR14-FE/BAL69-3-M08-3-M114-M2-35	322	PH 4M14N142M	---	0.40-0.50	0.7 MAX.	0.8 MAX.	13-15	13-15	---	0.25-0.40	2.0-2.75	---	---	---	---	8AL. (69.3)

CR14-FE/BAL75-M111	323	CHS4 17225	---	0.12 MAX.	2.0 MAX.	1.0 MAX.	13-15	10-12	---	---	---	---	---	---	---	8AL. (75)

CR15-2-FE/BAL52-3-M04-1-MB/CB2-2-M124-6	324	GAMMA CB *	GAMMA CB	0.40	0.54	0.62	15,2	24,6	---	4.1	---	2.2	---	---	---	8AL. (52.3)

CR15-9-CU3-FE/BAL62-4-M02-5-MB/CB0-45-M114-1-T10-25	325	17-14 CUMO	17-14 CUMO-AISI 653	0.12	0.75	0.50	15,9	14,1	---	2.5	---	0.45	0.25	---	---	8AL. (62.4)
326	AISI 653	---	17-14 CUMO-AISI 653	0.12	0.75	0.50	15,9	14,1	---	2.5	---	0.45	0.25	---	---	8AL. (62.4)

CR15-FE/BAL45-8-M11-MB/CB1-M135-S11-7	327	THERMALLOY 50C0	THERMALLOY 50C0	0.50	1.0	1.7	15	35	---	---	---	1.0	---	---	---	8AL. (45.8)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
CR13-5	FE/BAL56-8-NI12-5-Ti10-5	ISICALOY-AISI 662	CU0-5H, S00-03N, P0-04N	C-0073	US	AMS 5733	K66220	BA-FG-FG STOCK	GAS TURBINE PARTS, BOLTS.
295	ISICALOY 24	ISICALOY-AISI 662		C-0073	US	AMS 5733	K66220	BA-FG-FG STOCK	GAS TURBINE COMPONENTS FASTENERS.
296	FIRTN ISICALOY	ISICALOY-AISI 662		C-0073	US	AMS 5733	K66220	BA-FG-FG STOCK	GAS TURBINE BLADES, ROTORS, JET ENGINE COMPONENTS.
297	ASTM A-453	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BA-FG-FG STOCK	GAS TURBINE BLADES, ROTORS, JET ENGINE COMPONENTS.
298	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
299	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
300	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
301	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
302	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
303	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
304	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
305	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
306	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
307	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
308	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
309	ASTM A-453, GRADE 662	ISICALOY-AISI 662	CU0-5H, S0-03N, P0-04N	STO.	US	ASTM A-453	K66220	BOLTING MATERIALS	FASTENERS.
CR13-5	FE/BAL70-3-NI12-5-Ti10-5	ISICALOY-AISI 662	CU0-5H, S00-03N, P0-04N	C-0073	US	AMS 5733	K66220	BA-FG-FG STOCK	GAS TURBINE PARTS, BOLTS.
310	CNS# 17331			STO.	CZ	CNS# 17331			
CR13-5	FE/BAL70-3-NI12-5-Ti10-5	ISICALOY-AISI 662	CU0-5H, S00-03N, P0-04N	C-0073	US	AMS 5733	K66220	BA-FG-FG STOCK	GAS TURBINE PARTS, BOLTS.
311	SHILLE 6.2			C-0147	UK				
312	SHILLE 6.2			C-0147	UK				
CR14-2	FE/BAL45-1-NI36-Ti11-55-N3-2		S0-03MAX, P0-04MAX	STO.	CZ	CNS# 17335			AIRCRAFT ENGINE EXHAUST VALVES-AUSTENITIC.
313	CNS# 17335			STO.	CZ	CNS# 17335			
CR14-7	FE/BAL54-7-NI15-5-MO1.2-NI25-5-Ti11-8-V0.3		V0.3	STO.	UK	HR 251		PL, SH, ST	
314	HR 251			STO.	UK	HR 251			
CR14-8	FE/BAL67-8-NI12-5-Ti11-8-M2-5			C-0123	6Y				
315	WF 1800			C-0123	6Y				
CR14-9	FE/BAL51-9-NI13-36-NI27-4-Ti11-17-M			C-0132	US				
316	ATP-3			C-0132	US				
CR14-10	FE/BAL71-1-NI12-5-Ti10-0.7		CU2-5	C-0094	UK				
317	467			C-0094	UK				
CR14-11	FE/BAL57-9-NI18-Ti10-6		CU 4	C-0094	UK				
318	REX 78			C-0094	UK				
CR14-12	FE/BAL52-4-NI14-Si11-5-M6			C-0066	US				
319	S-495			C-0066	US				
CR14-13	FE/BAL56-8-NI14-Si11-5-M6			C-0094	UK				
320	F.V.S.			C-0094	UK				
CR14-14	FE/BAL66-8-NI14-Si11-5-M2-9		S0-02MAX, P0-03MAX	STO.	UR	60ST 5632-72			
321	6145KH14N142H			STO.	UR	60ST 5632-72			
CR14-15	FE/BAL59-3-NI14-Si11-5-M2-35		S0-03MAX, P0-04MAX	STO.	P0	PN-71-N86020			
322	PN 41N14N2N			STO.	P0	PN-71-N86020			
CR14-16	FE/BAL75-Ni11		S0-03MAX, P0-04MAX	STO.	G2	CNS# 17225			
323	CNS# 17225			STO.	G2	CNS# 17225			
CR14-17	FE/BAL52-3-NI14-Si11-5-M2-6				US				
324	GAMA CB				US				
CR15-9	CU3-5-NI14-Si11-5-M2-5-NI14-Si11-5-Ti10-0.25		CU3	C-0005	US	AISI 653			FURNACE PARTS, SALT BATH PARTS.
325	17-14 CUNO		CU3	C-0005	US	AISI 653			FURNACE PARTS, SALT BATH PARTS.
326	AISI 653			STO.	US	AISI 653			
CR15-15	FE/BAL58-8-NI14-Si11-5-M2-5-Ti10-0.25			C-0153	US				CABURIZING PARTS.
327	THERMALLOY 5600			C-0153	US				

TABLE 2. (Continued)

ALLOY NAME OR ALLOT DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDEUM	TUNGSTEN	CHEMICAL COMPOSITION-WEIGHT PERCENT					BORON	IRON
										GROUP II - CHROMIUM, NICKEL, IRON ALLOYS (Continued)	COLUMBIUM	TITANIUM	ALUMINUM			
CR15-FE/BAL51.75-MM1.5-M01.25-MI25-SI10.7-TI12-V0.3 320 BS HR 650			1.5	0.7	15	25.5		1.25			2.0				8AL. (53.75	
CR15-FE/BAL66.2-MM6.2-NB/CB1-MI10-V0.27 329 ESSHETE 1250		0.15 MAX.	5.5-7.0	0.2-1.0	14-16	9-11		0.15-0.4			0.75-1.25		0.003-0.009		8AL. (66.2)	
CR16.5-FE/BAL59.6-MB/CB1-MI16.5 330 AIS 2		0.10 MAX.	1.5	1.0	15.5-17.5	15.5-17.5		1.6-1.0		1.0 X % C				0.07	8AL. (59.6)	
CR16.5-FE/BAL61.1-MM1.3-MB/CB0.5-MI16.5-M0.1 331 ATS-26		0.10 MAX.	1.0-1.5	0.3-0.6	15.5-17.5	15.5-17.5				1.0 X % C					8AL. (61.1)	
CR16.5-FE/BAL64.6-M01.8-MB/CB0.6-MI16.5 332 AIS-AD3 333 MARKER 4981		0.10 MAX. 0.04-0.10	1.0-1.5 1.5 MAX.	0.3-0.6 0.3-0.6	15.5-17.5 15.5-17.5	15.5-17.5 15.5-17.5		1.6-2.0 1.6-2.0		1.2 1.0 X % C					8AL. (62.2)	
CR16.5-FE/BAL50.7-MM1.35-M06-MI25 347 16-25-6 348 TINKIN 16-25-6		0.08 MAX. 0.10 MAX.	2.0 MAX. 2.0	1.0 MAX. 1.0 MAX.	15.0-17.5 15.0-17.5	24-27 25		5.5-7.0 6.0							8AL. (50.7)	
CR16.5-FE/BAL51.75-MM1.5-M01.25-MI25-SI10.7-TI12-V0.3 349 FATH 16-25-6 350 AMS 5725		0.08 MAX. 0.10 MAX.	2.0 MAX. 2.0	1.0 MAX. 1.0 MAX.	15.0-17.5 15.0-17.5	24-27 24-27		5.5-7.0 5.5-7.0					M 0.15		8AL. (50.7)	
CR16.5-FE/BAL51.75-MM1.5-M01.25-MI25-SI10.7-TI12-V0.3 351 AMS 5725-MOPKIMS MELT 352 AISI 650 353 AISI 650 354 MIL-S-16530*		0.08 MAX. 0.08 MAX. 0.12	2.0 MAX. 2.0 MAX. 2.0 MAX.	1.0 MAX. 1.0 MAX. 0.5-1.0	15.0-17.5 15.0-17.5 15.0-17.5	24-27 24-27 24-27		5.5-7.0 5.5-7.0 5.5-7.0							8AL. (50.7)	
CR16-FE/BAL61.9-MM2.5-MB/CB1.05-MI15-M4 355 CROLOY 15-15N		0.15	2.0	0.75	16.0	15.0		1.55	1.40	1.05					8AL. (61.9)	
CR16-FE/BAL56-M02-MB/CB-MI15-SI1.7A 356 TURBOTHERM 12		0.10		1.0	16	15		2.0		MB ADDITION					8AL. (66)	
CR16-FE/BAL66-M02-MB/CB-MI16 357 TURBOTHERM 1616M		0.10			16	16		2.0		MB ADDITION					8AL. (66)	
CR16-FE/BAL68-MB/CB1.2-MI13 358 AIS		0.10 MAX.	1.0-1.5	0.3-0.6	15-17	12-14				1.2					8AL. (68)	
CR16-FE/BAL65-M01.3-MB/CB-MI13-M4V 359 TURBOTHERM 1613MV		0.10			16	13				MB ADDITION					8AL. (69)	
CR16-FE/BAL71-MI13-NB/CB-TA* 360 TURBOTHERM 1613 NB		0.10 MAX.			16	3				+ MB/CB-TA					8AL. (71)	
CR16-FE65.7-M01.75-MI16.5-MB/CB0.5 361 NERKSTOFF 1.4984 LM		0.10 MAX.	1.0-1.5	0.30-0.60	15.5-17.5	15.5-17.5		1.5-2.0		1.0 X %C +TA					8AL. (65.7)	
CR17.5-FE/BAL66.1-MB/CB1.2-MI11 362 TURBOTHERM 1613		0.10			17.5	12				1.2					8AL. (66.1)	

TABLE 2. (Continued)

[illegible]

ALLOY NAME OR LINE ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GR17,FE/BAL66.7,NI10.6,AL3.2 353 AIR 3105-041	AFNOR Z 10 GNM 17	---	FR	---	---	BA,FG,SM	---
CR17,FE/BAL66.1,MH1.3,M01.4,NB/CB8.9,NI13,N0.1,W0.7 364 ATS-6	---	C-0125	GY	---	---	WROUGHT FORMS	JET ENGINE AND MISSILE COMPONENTS.
CR10.5,FE/BAL52.9,MH1.2,W0.4,NB/CB4.9,NI20,NM 355 S-360	---	C-8066	US	---	---	WROUGHT FORMS	---
CR10.5,FE/BAL67.5,NM3.5,N19.5,P8.23 366 NMH	NMH	C-0034	US	---	---	WROUGHT FORMS	JET ENGINE COMPONENTS.
367 GRUCIBLE MMH	MMH	C-0034	US	---	---	WROUGHT FORMS	JET ENGINE COMPONENTS.
GR18.5,FE/BAL73,N18.5 350 SUPER ASCOLY	SUPER ASCOLY	C-8068	US	---	---	WROUGHT FORMS	HIGH TENSILE PROPERTIES/CORR. RESISTANT.
CR18,FE/BAL43.5,N137.5 373 PYRODUR 30 CM 38	G-X 40 MICRSMB 38 18	C-0126	GY	1.4849 DIN	---	CASTINGS	---
370 SEM-471,GX40MICRSI381	G-X 40 MICRSI 38 18	STD.	GY	1.4865 DIN	---	CASTINGS	---
371 G-X 40 MICRSI 38 18	G-X 40 MICRSI 38 18	STD.	GY	1.4865 DIN	---	CASTINGS	---
372 WERKSTOFF 1.4865 DIN	G-X 40 MICRSI 38 18	STD.	GY	1.4865 DIN	---	CASTINGS	---
CR18,FE/BAL43.5,N137.5 373 PYRODUR 30 CM 38	G-X 40 MICRSMB 38 18	C-0126	GY	1.4849 DIN	---	CASTINGS	---
374 SEM-471,GX40MICRSI383	G-X MICRSMB 38 18	STD.	GY	1.4849 DIN	---	CASTINGS	---
375 G-X 40 MICRSMB 38 18	G-X MICRSMB 38 18	STD.	GY	1.4849 DIN	---	CASTINGS	---
376 WERKSTOFF 1.4849 DIN	G-X MICRSMB 38 18	STD.	GY	1.4849 DIN	---	CASTINGS	---
CR18,FE/BAL66.7,MN4,M01.3,NB/CB1,N15,M1.3 377 CSA	CSA	C-0034	US	---	---	WROUGHT FORMS	---
CR18,FE/BAL70.7,M10,II18.6 378 F.O.P.	F.O.P.	C-8094	UK	---	---	WROUGHT FORMS	---
GR19.2,FE/BAL66.7,MH1,M01.5,N19,II0.5F,M1.2 379 19-90X	CUB,SHAX,S8.03MAX,P8.04MAX, CUB 5 MAX.	C-0872	US	AMS 5538	BA,FG,ST,SH,PL	---	SIMILAR TO 19-90L. NO COLUMBIUM.
380 ALLEGHENY 19-90X	19-90X,ALSI 652	C-0866	US	AMS 5538	BA,FG,ST,SH,PL	---	GAS TURBINE ROTORS,BUCKETS,FASTENERS,TAIL COMES.
381 ALTEMP 19-90X	19-90X,ALSI 652	C-0866	US	AMS 5538	BA,FG,ST,SH,PL	---	GAS TURBINE ROTORS,BUCKETS,FASTENERS,TAIL COMES.
382 CARPENTER 19-90X	19-90X,ALSI 652	C-8842	US	AMS 5538	BA,FG	---	SIMILAR TO 19-90L. NO COLUMBIUM-TURBINE WHEELS.
383 FIRTH 19-90X	19-90X,ALSI 652	C-8083	US	AMS 5538	BA,FG	---	JET ENGINE FASTENERS.
384 UNILLOY 19-90X	19-90X,ALSI 652	C-0072	US	AMS 5538	WROUGHT FORMS	---	JET ENGINE FASTENERS.
385 AMS 5538,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5538	SH,ST,PL	---	TURBINE NOZZLES,TAIL PIPES T01150F/621C.
386 AMS 5724,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5723	BA,FG,FG STOCK,RINGS	---	TANK SHEETS, BULKHEAD RINGS T01150F/621 C.
387 AMS 5724,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5723	BA TO 1 INCHES DIA.	---	BOLTS,DOMELS,FITTINGS,TURBINE ROTOR,WHEELS.
388 AMS 5724,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5723	BA TO 1 1/2 INCHES DIA.	---	BOLTS,DOMELS,FITTINGS USE TO 1150F/621 C.
389 AMS 5724,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5723	BA TO 1 1/2 INCHES DIA.	---	BOLTS,DOMELS,FITTINGS USE TO 1150F/621 C.
390 AMS 5783,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5783	W,WELODING ELECTRODES	---	CONTRACTS FOR WELODING CONGOALIN RES. ALLOYS.
391 AMS 5783,ALSI 652	19-90X,ALSI 652	STD.	US	AMS 5783	BA,FG,SH,ST,PL,RINGS	---	ROTORS,BUCKETS,BOLTS.
392 ALSI 652	19-90X,ALSI 652	STD.	US	SAE J467	BA,FG,SH,ST,PL	---	ROTORS, BUCKETS, BOLTS.
393 SAE J467,19-90X	19-90X,ALSI 652	STD.	US	---	---	---	ROTORS, BUCKETS, BOLTS.
CR19,FE/BAL63.1,NB/CB1.2,N112,M1,N3.2 394 EME	M0.18-0.28	C-0098	US	---	BA,FG,ROO	---	GAS TURBINE COMPONENTS AND FASTENERS.
395 UNITEMP ENE	M0.10-0.20	C-0872	US	---	BA,FG,ROO	---	GAS TURBINE COMPONENTS AND FASTENERS.
CR19,FE/BAL66.8,MH1,N01.25,NB/CB0.4,N19,II0.33,M1.2 397 CRDLO 19-90L	CUB,SHAX,S8.03MAX,P8.04MAX, CUB 5 MAX.	C-0072	US	AMS 5526	SN,ST,BA,FG,PL,T	---	LOW-COST SWEET, BAR, FORGING ALLOY.
398 ALLOY 19-90L	19-90L,ALSI 651	C-8867	US	AMS 5526	WROUGHT FORMS	---	JET ENGINE AND GAS TURBINE COMPONENTS.
399 UNITEMP 19-90L	19-90L,ALSI 651	C-8872	US	AMS 5526	WROUGHT FORMS	---	JET ENGINE AND GAS TURBINE COMPONENTS.
400 CARPENTER 19-90L	19-90L,ALSI 651	C-0842	US	AMS 5526	BL,ST,FC,PL,FG,T	---	ROTOR FORGINGS, BUCKETS, BOLTS, TAIL GOMES.
401 FIRTH 19-90L	19-90L,ALSI 651	C-0883	US	AMS 5526	BA,FG,SH	---	TURBINE WHEELS, BUCKETS, AFTERBURNERS.
402 ALTEMP 19-90L	19-90L,ALSI 651	C-8866	US	AMS 5526	BA,BI,RINGS,SH,ST,P,M	---	JET ENGINE AND GAS TURBINE COMPONENTS.
403 ALLEGHENY 19-90L	19-90L,ALSI 651	C-8866	US	AMS 5526	BA,BI,RINGS,SH,ST,P,M	---	JET ENGINE AND GAS TURBINE COMPONENTS.
404 AMS 5526,ALSI 651	19-90L,ALSI 651	STD.	US	AMS 5526	SH,ST,PL	---	TURBINE ROTORS,BUCKETS,FASTENERS,TAIL COME.
405 AMS 5526,ALSI 651	19-90L,ALSI 651	STD.	US	AMS 5527	SH,ST,PL	---	TURBINE ROTORS,BUCKETS,FASTENERS,TAIL COME.
406 AMS 5579,ALSI 651	19-90L,ALSI 651	STD.	US	ASTM A 577,ASTM A 477	WELDED TUBING	---	TANK SHEETS,TAIL PIPES,EXHAUST GOMES.
407 ASTM A 477 GRADE 651	19-90X,ALSI 651	STD.	US	ASTM A 477	WELDED TUBING	---	TANK SHEETS,TAIL PIPES,EXHAUST GOMES.
408 ASTM A 477 GRADE 651	19-90X,ALSI 651	STD.	US	ASTM A 477	WELDED TUBING	---	TANK SHEETS,TAIL PIPES,EXHAUST GOMES.
409 ASTM A 477 GRADE 651	19-90X,ALSI 651	STD.	US	ASTM A 477	WELDED TUBING	---	TANK SHEETS,TAIL PIPES,EXHAUST GOMES.
410 ASTM A 477 GRADE 651	19-90X,ALSI 651	STD.	US	ASTM A 477	WELDED TUBING	---	TANK SHEETS,TAIL PIPES,EXHAUST GOMES.
411 VACUOTHERM 6-10	19-90X,ALSI 651	C-0153	GY	1.4948 I W	BL,FG,FG STOCK	---	JET ENGINE AND GAS TURBINE COMPONENTS.

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT															
LINE	ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP II - CHROMIUM-NICKEL-IRON ALLOYS (Continued)															
CR19-FE/BAL66.8-NI1.25-NB/CB0.4-NI9-TI0.03-NI.2															
411 UNICOL 19-90L		19-90L-AISI 651	0.3			19-2	9		1.2	1.25	0.40	0.30			BAL. (66.8)
412 ANS 5720-AISI 651		19-90L-AISI 651	0.26-0.35	0.75-1.50	0.3-0.8	18-21	8-11		1.0-1.75	1.0-1.75	0.25-0.64TA	0.10-0.35			BAL. (66.8)
413 ANS 5721-AISI 651		19-90L-AISI 651	0.26-0.35	0.75-1.50	0.3-0.8	18-21	8-11		1.0-1.75	1.0-1.75	0.25-0.64TA	0.10-0.35			BAL. (66.8)
414 ANS 5722-AISI 651		19-90L-AISI 651	0.26-0.35	0.75-1.50	0.3-0.8	18-21	8-11		1.0-1.75	1.0-1.75	0.25-0.64TA	0.10-0.35			BAL. (66.8)
415 SAE J467-19-90L		19-90L-AISI 651	0.32	1.15	0.55	18.5	9.0		1.4	1.4	0.8	0.25			BAL. (66.8)
416 AISI 651		19-90L-AISI 651	0.28-0.35	8.75-1.50	0.3-0.8	18-21	8-11		1.0-1.75	1.0-1.75	0.25-0.64TA	0.10-0.35			BAL. (66.8)
CR19-FE/BAL66.8-NI7.44															
417 SIRTUS 30			0.20	1.5	1.5	19	7.0			4.0					BAL. (66.8)
CR19-FE/BAL66.3-NI0.4-NB/CB0.4-NI9-TI0.4-NI.3															
418 19-9NNO		19-9NNO	0.10	0.50	0.60	19.0	9.0		0.40	1.30	0.44	0.40			BAL. (66.3)
419 ALLOY 19-9 NNO		19-9NNO	0.08-0.12	0.50	0.60	18-22	8-10		0.2-0.5	1.0-1.5	0.2-0.6	0.40			BAL. (66.3)
420 UNITEMP 19-9 NNO		19-9NNO	0.08-0.12	0.4-1.0		18-20	8-10		0.2-0.5	1.0-1.75	0.3-0.6	0.2-0.5			BAL. (66.3)
CR19-FE40-NI9-NI27-N3															
421 ALLOY CSA-39		CSA-39	0.10			19	27		9.0	3.0					4.0
CR20.5-FE/BAL35.5-NI0.5-NI38-TI0.5															
422 CNS 17252			0.12 MAX.	1.5 MAX.	1.5 MAX.	19-22	36-40		4.5-6.5			1.0 MAX.			BAL. (35.5)
CR20.5-FE/BAL40.5-NI30-TI1															
423 INCOLOY T *			0.10	1.0	0.40	20.5	30					1.0			BAL. (48.5)
CR20.5-FE/BAL67.3-NI0.5-NB/CB1.3-NI8.5-TI0.2-NI.55															
424 UNITEMP 19-9NX		19-9NX	0.07-0.13	1-2		19-22	8.0-9.5		0.5	1.5	1.2	0.2			BAL. (67.3)
CR20.5-FE44.5-NI32-TI1.13															
425 INCOLOY ALLOY 801		INCOLOY ALLOY 801	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-22	30-34		FORMERLY	INCOLOY T		0.75-1.5			BAL. (44.5)
426 EASTERN NO. 801		INCOLOY ALLOY 801	0.04	0.75	1.0 MAX.	20.5	32					1.0			BAL. (44.5)
427 ANS 5952		INCOLOY ALLOY 801	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-22	30-34		1.0 MAX.			0.75-1.5			BAL. (44.5)
428 ANS 5742		INCOLOY ALLOY 801	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-22	30-34		1.0 MAX.			0.75-1.5			BAL. (44.5)
429 CHRONAX		INCOLOY ALLOY 801	0.10	1.5	1.0	19-22	30-34		1.5			0.75-1.5			BAL. (44.5)
430 NICAL CT		INCOLOY ALLOY 801	0.10	1.5	1.0	19-22	30-34		1.5			0.75-1.5			BAL. (44.5)
431 ISO 10 (ORAPT)		INCOLOY ALLOY 801	0.10 MAX.	1.5 MAX.	1.0 MAX.	19-22	30-34					0.75-1.5			BAL. (44.5)
CR20-CU3.5-FE/BAL39-NI0.5-NB/CB0.5-NI35															
432 ISO 21 (ORAPT)		20 CB 3	0.07 MAX.	2.0 MAX.	1.0 MAX.	19-21	32-38								BAL. (39)
433 NIDRONAZ 20		20 CB 3	0.07 MAX.	2.0 MAX.	1.0 MAX.	19-21	32-38								BAL. (39)
CR20-FE/BAL66.9-NI30-TI1.5		FOX 33	0.08	0.7	0.6	20	30					1.5			BAL. (46.9)
434 FOX 33		FOX 33													
CR20-FE/BAL45-NI35															
435 ATC N						20	35								BAL. (45)
CR21-FE/BAL61.8-NI13.5-TI1.2-N3															
436 BOFORS RC13			0.20		1.2	21	13			3.0					BAL. (61.8)
CR22-FE/BAL62-NI13-N3															
437 ERA N.R. 6N (CAST)			0.28		1.5	22	13			3.0					BAL. (62)
CR22-FE/BAL65-NI14-N															
438 SHANNINGAN X			0.2			22	14								BAL. (65)
CR22-FE67.2-NI9-N2.75															
439 AUBERT-OUVAL X20T			0.2-0.3			19-23	7-11			1.7-3.75					BAL. (67.2)
CR23-FE/BAL61-NI12-N4															
440 X20T2						23	12			4.0 MAX.					BAL. (61)
CR23-FE52.5-NI11.5-SI1.5-NI1.5															
441 ATS 17-G (CAST)			0.20		1.5	23	11.5			3.8					BAL. (52.5)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC SUPPLY DATA	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
CR19.FE/BAL66.8.MH.1.4.M19.T10.03.M1.2									
4.1	UNILLOY 19-90L	19-90L.AISI 651		C-0072	US	ANS 5726	K63198	BA.FG.SN.ST.PL	BOLTS, DOMELS, FITTINGS TO: 1150F/621 C.
4.2	AMS 5720.AISI 651	19-90L.AISI 651	CU0.5MAX.S0.03MAX.P0.04M.	STO.	US	ANS 5726	K63198	BA.T0.TNCS INCHES	BOLTS, DOMELS, FITTINGS TO: 1150F/621 C.
4.3	AMS 5721.AISI 651	19-90L.AISI 651	CU0.5MAX.S0.03MAX.P0.04M.	STO.	US	ANS 5721	K63198	BA.T0.TNCS INCHES	BOLTS, DOMELS, FITTINGS TO: 1150F/621 C.
4.4	AMS 5722.AISI 651	19-90L.AISI 651	CU0.5MAX.S0.03MAX.P0.04M.	STO.	US	ANS 5722	K63198	BA.FG.FG STOCK RINGS	BOLTS, DOMELS, FITTINGS TO: 1150F/621 C.
4.5	SAE J467.19-90L	19-90L.AISI 651	CU0.5MAX.S0.03MAX.P0.04M.	STO.	US	SAE J467	K63198	BA.FG.SN.ST.PL	BOLTS, DOMELS, FITTINGS TO: 1150F/621 C.
4.6	AISI 651	19-90L.AISI 651	CU0.5MAX.S0.03MAX.P0.04M.	STO.	US	AISI 651	K63198	BA.FG.FG STOCK.SN.ST.P	ROTORS, BUCKETS AND BOLTS.
CR19.FE/BAL66.8.M17.M4					FR			WROUGHT FORMS	JET ENGINE PARTS, TURBINE BLADES AND DISCS.
4.7	SIRIUS 30								
CR19.FE/BAL66.3.M00.4.NB/CB0.44.M19.T10.4.M1.3					US			WROUGHT FORMS	JET ENGINE PARTS, TURBINE BLADES AND DISCS.
4.8	19-90M0	19-90M0		C-0005	US		K63199	WROUGHT FORMS	JET ENGINE PARTS, TURBINE BLADES AND DISCS.
4.9	19-90M0	19-90M0		C-0072	US		K63199	WROUGHT FORMS	JET ENGINE PARTS, TURBINE BLADES AND DISCS.
4.20	UNITEP 19-9 M-0	19-90M0		C-0072	US		K63199	WROUGHT FORMS	SUPERCARGER WHEELS, BLADES, CASTINGS.
CR19.FE/BAL66.5.M05.5.M130.T10.5					UK			WROUGHT FORMS	COMPONENTS.
4.21	ALLOY CSA-39	CSA-39							
CR20.5.FE/BAL35.5.M05.5.M130.T10.5					CZ	CHS4 17252		WROUGHT FORMS	
4.22	CHS4 17252		S0.035MAX.P0.035MAX.	STO.					
CR20.5.FE/BAL48.5.M130.T11					US				
4.23	INCOLLOY T *			C-0067					
CR20.5.FE/BAL67.3.M08.5.NB/CB1.3.M10.5.T10.2.M1.55					US			WROUGHT FORMS	JET ENGINE COMPONENTS.
4.24	UNITEP 19-3MX	19-3MX		C-0072					
CR20.5.FE/BAL46.9.M130.T11.13					US	ANS 5552	N08001	SN.ST.PL.BA.FG.RINGS	PETROLEUM HYDROTREATERS, HEAT EXCHANGERS.
4.25	INCOLLOY ALLOY 801	INCOLLOY ALLOY 801	CU0.5 MAX.S0.15 MAX.	C-0067	US	ANS 5552	N08001	SN.ST.PL.BA.FG.RINGS	CORROSION/OXIDATION RESISTANCE TO:1000F/902C.
4.26	EASTERN NO. 801	INCOLLOY ALLOY 801	CU0.5 MAX.S0.15 MAX.	C-0107	US	ANS 5552	N08001	SN.ST.PL	PARTS REQUIRING BOTH OXIDATION/CORROSION RES.
4.27	AMS 5552	INCOLLOY ALLOY 801	CU0.5 MAX.S0.15 MAX.	STO.	US	ANS 5742	N08001	WROUGHT FORMS	
4.28	CHS 5742	INCOLLOY ALLOY 801	CU0.5 MAX.S0.03 MAX.	STO.	US	ISO M-10	N08001	WROUGHT FORMS	
4.29	INCOLLOY ALLOY 801	INCOLLOY ALLOY 801	CU0.5 MAX.S0.03 MAX.	C-0102	FR		N08001	WROUGHT FORMS	
4.30	MICRAL CT	INCOLLOY ALLOY 801	CU0.5 MAX.S0.03 MAX.	STO.	XX		N08001	WROUGHT FORMS	
4.31	ISO 10 (CRAFT)								
CR20.CUS.5.FE/BAL39.M05.5.NB/CB0.5.NI35					XX				
4.32	ISO 21 (CRAFT)	20 GS 3	CUS-4.S0.035MAX.	STO.	FR				
4.33	MICROMAX 20	20 GS 3	CUS-4.S0.035MAX.						
CR20.FE/BAL46.9.M130.T11.5					UK			WROUGHT FORMS	GAS ENGINE AND TURBINE DISCS.
4.34	FOX 33	FOX 33		C-0095					
CR20.FE/BAL45.NI35					FR			WROUGHT FORMS	JET ENGINE PARTS, GAS/STEAM TURBINE BLADES.
4.35	ATG M			C-0102					
CR21.FE/BAL61.8.M113.S11.2.N3					SN			WROUGHT FORMS	JET ENGINE PARTS, HEAT RESISTANT ALLOY.
4.36	BOFORS RCT3			C-0144					
CR22.FE/BAL62.NI13.N3					UK			CAST ALLOY	VALVES FOR DIESEL ENGINES.
4.37	ERA M.R. 6N (CAST)			C-0106					
CR22.FE/BAL65.NI14.W					CN				
4.38	SMINIMIGAN X			C-0114					
CR22.FE67.2.M19.M2.75					FR			WROUGHT FORMS	FLAME TUBE HEADS, HEAT SHIELDS.
4.39	AUBERT-OUVAL X20T			C-0135					
CR23.FE/BAL61.NI12.N4					FR			WROUGHT FORMS	
4.40	X20T2			C-0135					
CR23.FE52.5.M11.5.S11.5.M11.5					GY			INVESTMENT CASTINGS	
4.41	ATS 17-G (CAST)			C-0151					

LINE	ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
=====CHEMICAL COMPOSITION, WEIGHT PERCENT=====															
442	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
443	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
444	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
445	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
446	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
447	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
448	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
449	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
450	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
451	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
452	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
453	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
454	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
455	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
456	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
457	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
458	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
459	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
460	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
461	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
462	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
463	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
464	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
465	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
466	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
467	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
468	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
469	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
470	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
471	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
472	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
473	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
474	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
475	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
476	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
477	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
478	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
479	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
480	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
481	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
482	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
483	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
484	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
485	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
486	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
487	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
488	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
489	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
490	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
491	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
492	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
493	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
494	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
495	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
496	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
497	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
498	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
499	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
500	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
501	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
502	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
503	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
504	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
505	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
506	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
507	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
508	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
509	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
510	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
511	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
512	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0	23-25	23-25	23-25	2.9	---	1-2	---	---	---	8AL. (50.1)
513	FE/BAL50.1,NB/CB1.5,Ni24	C-X 30 NIRSINB 24 24	0.25-0.40	0.5-1.5	0.5-2.0										

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
CR24.FE/BAL50.1.NB/C81.5.NI2.4	442 THERMOUR 30CA24	G-X 30 NCRSING 24 24							
443	SEI-471.GX30NCRSING 24	G-X 30 NCRSING 24 24							
444	G-X 30 NCRSING 24 24	G-X 30 NCRSING 24 24							
445	MEKSTOFF 1.4095 OIN	G-X 30 NCRSING 24 24							
446	IN-549 (CAST)	HK-40							
CR24.FE/BAL59.4.N02.9.NI6.7	447 H-40	H-40							
449	JEISSOP-SAVILLE N-40	H-40							
CR25.1.FE/BAL53.3.NI21.2.N0.45	449 HK 40	HK 40							
CR25.3.FE/BAL53.1.NB/C81.57.NI22.1	450 SPIN 960	HK 40							
451	CAP1 960	HK 40							
CR25.FE/BAL37.N00.NI30	452 REFRACTALLOY B	REFRACTALLOY B							
CR25.FE/BAL53.5.NI20.5	453 AIR 9165-031	AFNOR Z 6 CN 25							
CR25.FE/BAL57.3.NI14.5.N3.2	454 JESSOP R-22	R-22							
CR26.FE/BAL51.7.N00.25.NI20.P6100PPN	455 CAPI 902	HK 40							
CR26.FE/BAL55.4.NN1.NB/C81.NI15.N-511	456 THERMALLOY 40A2	THERMALLOY 40A2							
CR27.FE/BAL16.2.NN1.3.NI40.511.N6	457 NA-22N	NA-22N							
CR32.2.FE/BAL59.5.NI12.3.N3	458 H-R. CROWN NAX	H-R. CROWN NAX							
CR33.FE/BAL0.1.NI50.M17	459 NO-RE 2	NO-RE 2							
CR50.FE0.5.NB/C81.55.NI/BAL40	460 IN-657	IN-657							
C06.5.CR10.5.FE/BAL01.2.N00.0.NB/C80.25.NI0.7	461 AECNA FE-PH30.1.591LN	N00 CO							
B-CR16.FE/BAL66.4.NI13.Ti0.05.N3	462 G.4	G.4							
CR11.5.FE/BAL05.5.N00.55.NB/C80.25.NI0.6.V0.3	463 H-46	H-46							
CR12.FE/BAL01.5.NB/C80.0.NI2.5	464 H-59	H-59							
CR13.FE/BAL67.5.NB/C81.NI13.5.N2.5	465 G.21	G.21							
CR16.5.FE/BAL69.2.NI11.5.Ti0.4.M1	466 G.9	G.9							
CR19.FE/BAL26.5.NI9.5.M1.4	467 R-47	R-47							

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT													
ALLOY NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
CR19.FE/BAL65.8.NB/CB1.NI12 468 R-20	0.12	1.3	0.5	19	12				1.25				BAL. (65.8)
CR21.5.FE/BAL59.1.NI17.5.TI0.46 469 R-45	0.12	0.8	0.5	21.5	17.5					0.40			BAL. (59.1)
CR22.5.FE/BAL61.3.NI11.5.NI2.7 470 R-22	0.20	0.8	1.0	22.5	11.5			2.7					BAL. (61.3)
B-CR12.5.FE/BAL64.6.NI18.0.NI3.N.V0.9 471 ALLOYMENT AF-71 472 AF-71	0.25 0.30	18 18	0.30	12.5 12.5			3.0 3.0					0.2 0.20	BAL. (64.6) BAL. (64.6)
B-CR15.FE/BAL50.NI10.NI2.25.NI22.N.V0.25.ZR0.01 473 KROMARC 55	0.02	10	0.20	15	22		2.25					0.008	BAL. (50)
CR12.5.FE/BAL64.9.NI18.0.NI3.N.V0.8 474 AF-183 475 ALLOYMENT AF-183	0.30 0.30	18 18	0.30	12.5 12.5			3.0 3.0						BAL. (64.9) BAL. (64.9)
CR12.5.FE/BAL68.NI18.5.NI1.25.NI8/C60.32.NI8.V1.4 476 G137KN12NSGMBF	0.34-0.40	7.5-9.5	0.3-0.8	11.5-13.5	7-9		1.1-1.4		0.25-0.40				BAL. (68)
CR12.5.FE60.1.NI18.NI0.2.V1 477 CROMADUR	0.15 MAX.	18		12.5	0.2								BAL. (68.1)
CR15.FE16.NI16.NI07.NI60 478 CONTRACIO B7M0		2.0		15	60		7.0						16
CR16.FE/BAL52.NI19.5.NI2.25.NI20 479 KROMARC 55	0.04	9.5	0.30	16	20		2.25						BAL. (52)
CR16.FE/BAL54.6.NI17.5.NI06.NI15.N 480 16-15-6 481 TIMKIM 16-15-6	0.08 MAX. 0.08 MAX.	6.5-8.5 6.5-8.5	1.0 MAX. 1.0 MAX.	15-17.5 15-17.5	14-17 14-17		5.5-7.0 5.5-7.0						BAL. (54.6) BAL. (54.6)
CR17.FE/BAL66.NI15.NI1.25.N 482 216	0.10	15	0.40	17.0	1.25								BAL. (66)
CR18.5.FE14.5.NI13.NI02.NI61.4 483 CROMAN BZ NO		3.0	0.6	10.5	61.4		2.0						14.5
CR19.75.FE/BAL72.5.NI18.25.NI16.N 484 205	0.08	8.25	0.50	19.75	6.0		2.50						BAL. (72.5)
CR20.5.FE/BAL63.5.NI18.5.NI13.5.N 485 22-4-9	0.55	6.5	0.15	20.5	3.5								BAL. (63.5)
CR20.5.FE/BAL63.5.NI19.NI16.5.N 486 21-6-9	0.04	9.0	0.15	28.5	6.5								BAL. (63.5)
CR21.FE/BAL59.7.NI18.5.NI10.5.NI10.NI0.23 487 HTX	0.45	8.5	0.45	21	8.0		1.5						BAL. (59.7)
CR21.FE/BAL64.NI11.5.NI12.6 488 GANAN N	8.53	11.5	2.6	21									BAL. (64)
CR21.FE/BAL65.2.NI19.5.NI13.8.NI0.45 489 PH 50M2169N4	0.47-0.57	8-11	0.5 MAX.	20-22	3.25-4.5								BAL. (65.2)
CR22.FE/BAL68.NI18.5.N 490 G-192	0.60	6.5	0.55	22									BAL. (68)

TABLE 2. (Continued)

ALLOY NAME OR LINE ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
CR19, FE/BAL 65.0+NB/C/BI+NI12 468 R-20	R-20		C-0147	UK			WROUGHT FORMS	
CR21.5, FE/BAL 59.1+NI17.5+Ti0.40 469 R-45	R-45		C-0147	UK			INVESTMENT CASTINGS	
CR22.5, FE/BAL 61.3+NI11.5+M2.7 470 R-22	R-22		C-0147	UK			INVESTMENT CASTINGS	
B-CR12.5, FE/BAL 64.6+MN18.0+Ni0.9 471 ALLEGHENY AF-71* 472 ALLEGHENY AF-71* 473 KRONARC 50	AF-71 AF-71 KRONARC 50		C-0066 C-0066	US US			WROUGHT FORMS WROUGHT FORMS	GAS TURBINES, MISSILES, AIRFRAMES. GAS TURBINES, MISSILES, AIRFRAMES.
B-CR15, FE/BAL 50.0+Ni10.25+M2.25+Zr0.01 473 KRONARC 50	KRONARC 50		C-0073	US			WROUGHT FORMS	MELOD COMPONENTS IN STEAM TURBINES.
CR12.5, FE/BAL 64.6+9+MN18.0+Ni0.9 474 AF-103* 475 ALLEGHENY AF-103*	AF-103 AF-103		C-0066 C-0066	US US			WROUGHT FORMS WROUGHT FORMS	JET ENGINES AND GAS TURBINE COMPONENTS.
CR12.5, FE/BAL 60.5+Ni01.25+NB/C/0.32+Ni8.0+V1.4 476 G137/KH12560NF9			STO.	UR	60ST 5632-72		WROUGHT FORMS	
CR12.5, FE/60.1+Ni10.2+V1 477 CROMADUR		V1	C-0123	GY			WROUGHT FORMS	JET ENGINE PARTS.
CR15, FE/61.8+Ni2.0+Ni0.6 478 CROMADUR 87NO			C-0122	GY			WROUGHT FORMS	JET ENGINE PARTS, HEAT AND OXIDATION RESIST.
CR16, FE/BAL 52.0+Ni2.25+Ni20 479 KRONARC 55	KRONARC 55		C-0073	US			CASTINGS	CAST NOZZLE CHAMBERS, MELTING ELECTRODES.
CR16, FE/BAL 54.6+Mn7.5+Ni0.6+Ni15.0 480 TINKIN 16-15-6 481 TINKIN 16-15-6	16-15-6 16-15-6	NB.15-0.25 NB.15-0.25	C-0009 C-0009	US US			BI.8A+SH+FC, MELO ROD BI.8A+SH+FC, MELO ROD	GAS TURBINE WHEELS, SHAFTING, BOLTS, BUCKETS. GAS TURBINE WHEELS, SHAFTING, BOLTS, BUCKETS.
CR17, FE/BAL 66.0+Ni15.0+Ni2.5 482 216	216	NB.35	C-0066	US			WROUGHT FORMS	
CR18.5, FE/64.5+Ni3.0+Ni2.0+Ni61.4 483 CROMADUR 82 MO			C-0122	GY			WROUGHT FORMS	JET ENGINE PARTS, OXIDATION RESISTANT.
CR19.75, FE/BAL 72.5+Ni8.25+Ni6.0 484 205	205	NB.37	C-0066	US			WROUGHT FORMS	
CR20.5, FE/BAL 63.5+Ni8.5+Ni3.5 485 22-4-9	22-4-9	NB.48	C-0005	US			BI.8A+PL	
CR20.5, FE/BAL 63.5+Ni9.0+Ni6.5 486 21-6-9	21-6-9	NB.30	C-0005	US			WROUGHT FORMS	
CR21, FE/BAL 59.7+Ni8.5+Ni1.5+Ni10.0+P0.23 487 HTX	HTX	NB.2+P0.23	C-0034	US				
CR21, FE/BAL 64.6+Ni11.5+Ni2.6 488 GANAN H	GANAN H	NB.40		US				
CR21, FE/BAL 65.2+Ni9.5+Ni3.0+Ni0.45 489 PN 50N2153N4			STO.	P0	PN-71-M6022		WROUGHT FORMS	
CR22, FE/BAL 60.0+Ni8.5 490 G-192*	G-192	NB.35	C-0066	US				

GROUP IIA -- HIGH-MANGANESE MODIFICATIONS OF GROUP II

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT														
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	IRON
GROUP IIIA - HIGH-MANGANESE MODIFICATIONS OF GROUP II														
CR25.FE/BAL46.9.NN12.NI15.N	491 CNN	CNN	0.65	12	-----	25.0	15	-----	-----	-----	-----	-----	-----	BAL. (46.9)
CR17.5.FE/BAL37.4.NN14.NI01.75.NI16.SI1.2	492 F-8-0.	-----	0.15	1.0	1.2	17.5	16	-----	1.75	-----	2.0	-----	-----	BAL. (37.4)
GROUP III -- CHROMIUM, NICKEL, COBALT, IRON ALLOYS														
AL0.05.CO14.CR0.1.FE/BAL52.3.NI32.2.TI1.4	493 INCOLOY 904	-----	0.05 MAX.	0.4 MAX.	0.25 MAX.	0.1	32.2	14.0	0.2 MAX.	-----	-----	1.4	0.05	BAL. (52.3)
AL0.2.CO22.CR18.FE/BAL14.3.NI12.2.TI2.1	494 K-428	K-428	0.00 MAX.	0.4-1.0	0.4-1.0	16-20	40-44	20-24	-----	-----	-----	1-4	-----	BAL. (14.3)
AL0.2.CO35.7.CR19.FE9.NI07.NI8.CB0.6.NI25.5.TI1.3	495 NPI59	-----	-----	-----	-----	19	25.5	35.7	7.0	-----	0.6	3.0	0.2	9.0
AL0.7.CO41.5.CR12.FE/BAL10.3.NI04.NI25.5.TI2.M4	496 OROTHERM 600	-----	-----	-----	-----	12	25.5	41.5	4.0	-----	-----	2.0	0.7	BAL. (10.3)
AL0.8.CO0.5.CR18.FE/BAL34.NI05.25.NI39.TI2.3.ZR0.12	497 UCAR ALLOY 11	-----	0.05	0.25	-----	18	39	0.5	5.25	-----	-----	2.3	0.8	BAL. (34)
AL0.8.CO20.CR18.FE/BAL29.NI30.TI2	498 ATVS 7	-----	0.10	-----	-----	18	30	20	-----	-----	-----	2.0	0.8	BAL. (29)
499 Z 10 NKC 30	-----	-----	0.10	-----	-----	18	30	20	-----	-----	-----	2.0	0.8	BAL. (29)
AL0.82.CO18.CR18.FE/BAL32.5.NI05.25.NI39.TI2.35.ZR	500 AFNOR ZN C030	NIMONIC PE 11	0.03-0.08	0.2 MAX.	0.5 MAX.	17-19	37-41	1.0 MAX.	4.75-5.75	-----	-----	2.1-2.5	0.6-1.0	BAL. (32.5)
501 OIN X8 MICROTI 38-48	-----	NIMONIC PE 11	0.03-0.08	0.2 MAX.	0.5 MAX.	17-19	37-41	1.0 MAX.	4.75-5.75	-----	-----	2.1-2.5	0.6-1.0	BAL. (32.5)
502 NIMONIC ALLOY PE 11	-----	NIMONIC PE 11	0.03-0.08	0.2 MAX.	0.5 MAX.	17-19	37-41	1.0 MAX.	4.75-5.75	-----	-----	2.1-2.5	0.6-1.0	BAL. (32.5)
503 OTO 5037	-----	-----	0.03-0.08	0.2 MAX.	0.5 MAX.	17-19	37-41	1.0 MAX.	4.75-5.75	-----	-----	2.1-2.5	0.6-1.0	BAL. (32.5)
AL0.9.CO14.5.CR0.1.FE/BAL44.NI8.CB3.NI37.5.TI0.2	504 INCOLOY ALLOY 903	INCOLOY ALLOY 903	0.05 MAX.	0.2 MAX.	0.20 MAX.	0.2	37.5	14.5	0.2 MAX.	-----	3.0	0.2	0.9	BAL. (44)
AL0.9.CO20.CR18.5.FE/BAL26.2.TI2.1	505 ATV 57	-----	0.10	1.2 MAX.	1.0 MAX.	18.5	30	20	-----	-----	-----	2.1	0.9	BAL. (26.2)
AL1.2.CO1.CR18.FE/BAL36.6.NI05.NI37.TI1.2	506 MINONIC PE 7	NINONIC PE 7	0.10	-----	-----	18	37	2.0 MAX	5.0	-----	-----	1.2	1.2	BAL. (36.6)
AL1.2.CO41.5.CR12.FE/BAL8.3.NI04.NI25.5.TI3.5.M4	507 OROTHERM 700	-----	-----	-----	-----	12	25.5	41.5	4.0	4.0	-----	3.5	1.2	BAL. (8.3)
AL1.8.CO4.CR13.5.FE/BAL30.NI06.NI42.5.TI3	508 PYROMET 800	-----	0.05	1.0 MAX.	1.0 MAX.	12-16	40-45	3.5-4.5	5-7	-----	-----	2.5-3.5	0.75-1.50	BAL. (30)
AL3.7.CO19.CR22.5.FE0.5.NI8.CB1.NI8.BAL48.TAI.4.TI5.7	509 IM-939	(CAST) IM-939	0.13-0.17	0.2 MAX.	0.2 MAX.	22.2-22.8	BAL. (46.5)	18.5-19.5	-----	1.8-2.2	0.9-1.1	3.6-3.8	1.8-2.0	0.004-0.014 0.5 MAX.
B.CO12.CR21.FE/BAL0.1.NI1.5.NI04.NI18.M2.5	510 NAYMES ALLOY NO. 99	NAYMES ALLOY NO. 99	0.10	1.5	0.7	21	18	12	4.0	2.5	-----	-----	-----	BAL. (40.1)
B.CO6.2.CR10.6.FE/BAL71.NI00.8.NI8.CB0.4.NI0.7.NI0.3.V0.3	511 NERKSTOFF 1.4911 LN	-----	0.05-0.12	0.20-1.35	0.1-0.8	9.8-11.5	0.2-1.2	5.0-7.5	0.5-1.1	-----	0.2-0.6	-----	-----	0.005-0.015 BAL. (71)
B.CO6.CR10.5.FE/BAL02.6.NI00.7.NI8.CB0.3.NI0.5.V0.2.M0.7	512 AIR 9165-021	AFNOR Z 10 CX 10	0.06-0.11	0.6-1.15	0.1-0.7	9.8-11.2	0.2-0.8	5-7	0.5-1.0	0.7 MAX.	0.20-0.45	-----	-----	0.005-0.012 BAL. (82.4)
B.CO6.CR10.5.FE/BAL8.1.2.NI00.75.NI8.CB0.4.NI0.7.NI0.35	513 ENDO CO	-----	0.05-0.12	1.0 MAX.	0.10-0.80	9.8-11.5	0.2-1.2	5-7	0.5-1.0	-----	0.2-0.6	-----	-----	0.005-0.015 BAL. (81.3)
514 TERNON 4911 VAKUMELT	-----	-----	0.05-0.12	1.0 MAX.	0.10-0.80	9.8-11.5	0.2-1.2	5-7	0.5-1.0	-----	0.2-0.6	-----	-----	0.005-0.015 BAL. (91.3)
CO.CR18.FE/BAL64.NI8.M10	515 ASR2	-----	-----	-----	-----	18	8.0	COBALT	-----	10	400	-----	-----	BAL. (64)

GROUP III -- CHROMIUM, NICKEL, COBALT, IRON ALLOYS

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UMS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP III -- CHROMIUM, NICKEL, COBALT, IRON ALLOYS									
CR25	FE/BAL 46.9 MM12 MI15 N	CHH	MM 45	C-0034	US	GROUP IIIA - HIGH-MANGANESE MODIFICATIONS OF GROUP II (Continued)			
CR17.5	FE/BAL 37.4 MM1 N01.75 MI16 SI1.2				GY			WROUGHT FORMS	SUPERCHARGER AND GAS ENGINE PARTS.
492	F-8-0.								
AL 0.05	CO14, CR00-1, FE/BAL 52.3 MI32.2 TI1.4								
493	INCOLOY 904								
AL 0.2	CO22, CR18, FE/BAL 14.3 MI42 TI2.1								
494	K-428								
AL 0.2	CO35.7, CR19, FE 9 MM7 MB/C80.6 MI25.5 TI3								
495	HP159								
AL 0.7	CO41.5, CR12, FE/BAL 10.3 MI06 MI25.5 TI2.4								
496	OUROTHERM 600								
AL 0.8	CO08.5, CR18, FE/BAL 34 MI05.25 MI39 TI2.3 ZR0.12								
497	OUR ALLOY 11								
AL 0.8	CO20, CR18, FE/BAL 29 MI30 TI2								
498	ATVS 7								
499	Z 10 MKC 30								
AL 0.02	B-CO1, CR18, FE/BAL 32.5 MI05.25 MI39 TI2.35 ZR								
500	AFMOR ZA MC 038								
501	QIN X6 MICROMOT 38-18								
502	MINOMIC ALLOY PE 11								
503	OTO 5037								
AL 0.9	CO44.5, CR00.1, FE/BAL 44 MB/C83 MI37.5 TI0.2								
504	INCOLOY ALLOY 903								
AL 0.9	CO20, CR18.5, FE/BAL 26.2 TI2.1								
505	ATV 57								
AL 1.2	CO1, CR18, FE/BAL 36.6 MI05 MI37 TI1.2								
506	MINOMIC PE 7								
AL 1.2	CO41.5, CR12, FE/BAL 8.3 MI06 MI25.5 TI3.5 MI								
507	OUROTHERM 700								
AL 1.8	CO4, CR13.5, FE/BAL 30 MI06 MI42.5 TI3								
508	PYROMET 860								
AL 3.7	CO19, CR22.5, FE0.5 MB/C81 MI/BAL 40 TA1.4 TI1.5								
509	IN-939								
B-CO12	CR21, FE/BAL 40.1 MI1.5 MI04 MI10 MI2.5								
510	HAYNES ALLOY NO. 99								
B-CO6.2	CR18.6, FE/BAL 71 MI08 MB/C80.4 MI0.7 MI0.3 MI0								
511	WERKSTOFF 1.4911 LN								
B-CO6	CR18.5, FE/BAL 82.4 MI00.7 MB/C89.3 MI0.5 MI0.2 MI0								
512	AIR 3165-021								
B-CO6	CR18.6, FE/BAL 81.2 MI08.75 MB/C80.4 MI0.7 MI0.35								
513	RHOOD CO								
514	THEMOM 4911 VAKUMELT								
CO-CR18	FE/BAL 64 MI10 MI10								
515	ASRZ								

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION,WEIGHT PERCENT=====															
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	NOLYBDEUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)															
C01.5	CR20.75,FE18.5,N09,NI/BA14.9,6,M0.6	2.49720IN	0.15 MAX.	1.0 MAX.	1.0 MAX.	20.5-23.0	8AL. (49.6)	0.5-2.5	0-10	0.2-1.0	-----	-----	-----	-----	17-20
C01.6	CR11.5,FE/EAL02.1,M01.0,NI3,M4														
517	MTS 0-C (CAST)	JETHETE M-190	0.13	-----	-----	11.5	3.0	1.6	1.0	-----	-----	-----	-----	-----	8AL. (02.1)
C01.8	CR12.5,FE/BA102.2,M02,NI0.4,M2														
510	MTS-2	-----	0.22	0.6	0.3	12.5	0.4	1.8	2.0	-----	-----	-----	-----	-----	6AL. (02.2)
C01.0	CR12,FE/BA158,M03,NI15,M2														
519	NOXIS 4	-----	-----	-----	-----	12	15	10	3.0	2.0	-----	-----	-----	-----	8AL. (50)
C01.0	CR13,FE/BA156.1,M02,NB/C83,M2.5														
520	C-188	C-188	0.40	0.8	1.0	13	13	10	1.0	2.5	3.0	-----	-----	-----	8AL. (54.5)
521	JESSOP C-188	C-188	0.40	0.0	1.3	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (54.5)
522	SAVILLE C-188	C-188	0.40	0.0	1.0	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (54.5)
523	SAVILLE G-108	C-108	0.40	0.0	1.0	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (55.5)
524	CR-10	G8-10	0.40	0.0	1.0	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (55.5)
525	ATC 8	-----	0.04	-----	-----	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (56.1)
526	RAYOTERN 960C (CAST)	1.49600IN	0.35-0.45	1.5 MAX.	0.35-0.45	12.5-13.5	12.5-13.5	9.5-10.5	1.0-2.2	2.3-2.8	2.0-3.2	-----	-----	-----	8AL. (56.4)
527	EM 4960	1.49600IN	0.35-0.45	2.0 MAX.	0.35-0.45	12.5-13.5	12.5-13.5	9.5-10.5	1.0-2.2	2.3-2.8	2.0-3.2	-----	-----	-----	8AL. (56.4)
528	LASTE 4960	1.49600IN	0.35-0.45	2.0 MAX.	1.0 MAX.	12.5-13.5	12.5-13.5	9.5-10.5	1.8-2.2	2.3-2.8	2.0-3.2	-----	-----	-----	8AL. (56.4)
529	SVTA 10 CO	1.49600IN	0.35-0.45	2.0 MAX.	1.0 MAX.	12.5-13.5	12.5-13.5	9.5-10.5	2.0-2.2	2.3-2.8	2.0-3.2	-----	-----	-----	8AL. (56.4)
530	TURBOTERN 13CO-10	-----	0.40	0.0	1.0	13	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (56.5)
531	ATIS-101	-----	0.4	0.0	1.0	15.5-17.5	12-14	0.5-11.5	2.0	2.5	3.0	-----	-----	-----	8AL. (50.0)
C01.0	CR17,FE/BA14.7,M1.5,M03,NB/C81,NI15,M2														
532	M-153	M-153	0.32	1.5	0.5	17	15	12	3.0	2.0	1.0	-----	-----	-----	8AL. (47.7)
C01.0	CR19,FE/BA140.5,M8/C83,MT19,M2.5														
533	JESSOP C-19 (CAST)	C-19	0.40	0.0	1.0	19	13	10	2.0	2.5	3.0	-----	-----	-----	8AL. (48.5)
C01.5	CR21,FE/BA144.9,M1.5,M04.5,NB/C80.75,MI13,M1.5														
534	MAYNES ALLOY NO. 56	MAYNES ALLOY NO. 56	0.27	1.5	1.0 MAX.	21	13	11.5	4.5	1.5	0.75	-----	-----	-----	8AL. (44.9)
C01.2	CR17,FE/BA140,M1.5,M02.8,NB/C81,NI15,M0.09,M2.5														
535	NECLA E.N.35(C)(CAST)	-----	0.35	1.5	0.4	17	15	12	2.9	2.5	1.0	-----	-----	-----	8AL. (48)
536	NECLA E.N. 20	-----	0.18	1.5	0.4	17	15	12	2.9	2.5	1.0	-----	-----	-----	8AL. (40)
C01.2	CR10,FE/BA149,NI9,TI2,M10														
537	ASR1	-----	0.36	-----	-----	10	9.0	12	-----	-----	2.0	-----	-----	-----	8AL. (49)
C01.4	2-CR16,FE/BA137.3,M1.5,M02.8,NB/C80.5,NI20,M0.1V														
530	ATS-105	-----	0.10 MAX.	1.5	1.0	15.5-17.5	19-21	12.5-22.0	2.6-3.0	2.0	10 X % C	-----	-----	-----	8AL. (37.3)
C01.6	CR17,FE/BA150.7,NI16,TI2,M3														
539	SIRIUS HT	-----	0.25	0.5	0.5	17	16	10	-----	3.0	-----	2.0	-----	-----	8AL. (50.7)
C01.9	CR10,FE/BA122.9,M03,NI36,TI2.6														
540	REFRACTALLOY 26	REFRACTALLOY 26	0.08 MAX.	0.4-1.0	0.5-1.5	16-20	35-39	16-22	3.0	-----	-----	3.0	0.03 MAX	-----	8AL. (22.9)
541	ATSI 690	REFRACTALLOY 26	0.08 MAX.	0.4-1.0	0.5-1.5	16-20	35-39	16-22	3.0	-----	-----	2.6	0.30 MAX	-----	8AL. (22.9)
542	ATIS 7 NO	REFRACTALLOY 26	0.06	-----	-----	18	37	20	3.0	-----	-----	2.75	-----	-----	8AL. (22.9)
543	AFNOR Z6 NKCOT 38	REFRACTALLOY 26	0.06	-----	-----	18	37	20	3.0	-----	-----	2.75	-----	-----	8AL. (22.9)
C01.9	CR21,FE/BA133.2,M03,NB/C81,NI20,M0.3,M2.5														
544	WERKSTOFF 1.4957 LN	-----	0.20 MAX.	1-2	1.0 MAX.	20.0-22.5	20.0-22.5	18.5-21.0	2.5-3.5	2-3	0.75-1.25	-----	-----	-----	8AL. (33.2)
545	WERKSTOFF 1.4974 LN	N-155	0.00-0.16	1-2	1.0 MAX.	20.0-22.5	19-21	18.5-21.0	2.5-3.5	2-3	0.75-1.25	-----	-----	-----	8AL. (33.2)
C02.0	CR14,FE/32.5,M0.4,M8/C84,NI20,M4														
546	S-497	S-497	0.45	0.47	0.61	14	20	20	4.0	4.0	4.0	-----	-----	-----	8AL. (32.5)
C02.0	CR15,FE/BA172,M02.9,NI10.1														
547	PYRONET X-15	-----	0.03 MAX.	0.10 MAX.	0.10 MAX.	15	0.20 MAX.	20.0	2.9	-----	-----	-----	-----	-----	8AL. (72)
C02.0	CR17,FE/BA128,M04,M8/C82,NI35,M4														
548	TURBOTERN 35CO-20	-----	0.14	-----	-----	17	35	20	4.0	4.0	2.0	-----	-----	-----	8AL. (20)

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)									
C01.5	CR20.75, FE18.5, NI09.5, NI1/BAL9.6, MO.6			C-8135	FR	2.4972 DIN		WROUGHT FORMS	CAS TURBINE PARTS.
516	ALN1C 240 0.1								
C01.6	CR11.5, FE/BAL82.1, MO1.8, NI3.4			C-0151	CY			INVESTMENT CASTINGS	STEAM-TURBINES AND COMPRESSOR WHEELS.
517	NTS 8-G (CAST)	JETHETE M-190							
C01.8	CR12.5, FE/BAL82.2, MO2, NI8.4, W2				GY			WROUGHT FORMS	
518	NTS-2								
C01.9	CR12, FE/BAL58, MO3, NI15, W2			C-0135	FR			WROUGHT FORMS	CAS TURBINE ENGINES.
519	NOXIS 4								
C01.10	CR13, FE/BAL56.1, MO2, NI8, CB3, W2.5				UK			WROUGHT FORMS	TURBINE DISCS ROTOR BLADES, ENGINE EXHAUSTS.
520	ATC 8			C-0147	UK			WROUGHT FORMS	TURBINE DISCS ROTOR BLADES, ENGINE EXHAUSTS.
521	JESSOP C-188			C-0147	UK			WROUGHT FORMS	GAS TURBINE DISCS.
522	JESSOP C-188			C-0147	UK			WROUGHT FORMS	AIRCRAFT ENGINE EXHAUST VALVES-AUSTENITIC.
523	SAVILLE G-188			C-0147	UK			WROUGHT FORMS	GAS TURBINE DISCS.
524	GB-18			C-0182	FR			CASTINGS	GAS AND STEAM TURBINE COMPONENTS, WHEELS.
525	ATC 8			C-0187	CY	1.4968 DIN		WROUGHT FORMS	GAS AND STEAM TURBINE COMPONENTS, WHEELS.
526	KATHERM 9600 (CAST)			C-0195	CY	1.4968 DIN		WROUGHT FORMS	GAS AND STEAM TURBINE COMPONENTS, WHEELS.
527	LASTE 1560			C-0186	GY	1.4968 DIN		WROUGHT FORMS	GAS AND STEAM TURBINE COMPONENTS, WHEELS.
528	LASTE 1560			C-0186	GY	1.4968 DIN		WROUGHT FORMS	GAS AND STEAM TURBINE COMPONENTS, WHEELS.
529	BTA 10 60			C-0162	GY	1.4968 DIN		WROUGHT FORMS	JET ENGINE PARTS AND GAS TURBINE BLADES.
530	TURBOTHERM 13CO-10			C-8138	AU			WROUGHT FORMS	JET ENGINE PARTS.
531	ATS-101			C-0125	CY			WROUGHT FORMS	
C01.11	5-CR21, FE/BAL44.9, NI1.5, MO4.5, NI8, CB8.75, NI13, W1				US			INVESTMENT CASTINGS	JET ENGINE COMPONENTS.
532	M-153			C-0068	US				
C01.12	5-CR21, FE/BAL44.9, NI1.5, MO4.5, NI8, CB8.75, NI13, W1			C-0147	UK			INVESTMENT CASTINGS	GAS TURBINE NOZZLE GUIDE VANES.
533	JESSOP C-19 (CAST)	G-19							
C01.13	5-CR21, FE/BAL44.9, NI1.5, MO4.5, NI8, CB8.75, NI13, W1			C-0868	US			CAST ALLOY	
534	HAYNES ALLOY NO. 56			C-0868	US			WROUGHT ALLOY	
C01.14	5-CR21, FE/BAL44.9, NI1.5, MO4.5, NI8, CB8.75, NI13, W1			C-0186	UK			WROUGHT FORMS	CAS TURBINE COMPONENTS.
535	HECLA C.M. 35C1 (CAST)			C-0186	UK				
536	HECLA C.M. 20			C-0186	UK				
C01.15	5-CR21, FE/BAL44.9, NI1.5, MO4.5, NI8, CB8.75, NI13, W1			C-0132	FR			WROUGHT FORMS	CAS TURBINE COMPONENTS.
537	ASR1								
C01.16	5-CR16, FE/BAL37.3, NI1.5, NI82.8, NI8/CB0.5, NI20, NI0.5			C-0125	CY			WROUGHT FORMS	JET ENGINE PARTS.
538	ATS-105								
C01.17	5-CR17, FE/BAL58.7, NI16, TI2, W3				FR			WROUGHT FORMS	CAS TURBINE COMPONENTS.
539	SIRIUS HT								
C01.18	5-CR18, FE/BAL22.9, MO3, NI36, TI2.6			C-8073	US	ASTM 690		BA, ROO, SH, ST, FG	GAS TURBINE PARTS, BLADES, BOLTS.
540	ASTM 690			STD.	US	ASTM 690		WROUGHT FORMS	TURBINE COMPONENTS, BLADES, BOLTS TO 1500F/816C.
541	ASTM 690			C-0102	FR	2 6 HKCOT 38		WROUGHT FORMS	GAS TURBINE PARTS, BLADES, AND BOLTS.
542	AFNOR 26 NKCOT 38			STD.	FR	2 6 HKCOT 38		WROUGHT FORMS	GAS TURBINE PARTS, BLADES, AND BOLTS.
C01.19	5-CR19, FE/BAL33.2, MO3, NI8, CB1, NI20, NI0.3, W2.5			STD.	CY	1.4957 LN		INVESTMENT CASTINGS	
543	WERKSTOFF 1.4957 LN			STD.	GY	1.4971 DIN		ST, SH, PL	
544	WERKSTOFF 1.4957 LN								
545	WERKSTOFF 1.4974 LN			C-0066	US			WROUGHT FORMS	
C02.0	5-CR14, FE/32.5, MO4, NI8, CB4, NI28, W4								
546	S-497								
C02.1	5-CR15, FE/BAL72, MO2.9, NI0.1			C-0842	US	AMS 5761		WROUGHT FORMS	COMPRESSOR DISCS AND GUN BARRELS.
547	PHOMET X-15								
C02.2	5-CR17, FE/BAL24.4, NI8, CB2, NI35, W4			C-0138	AU			WROUGHT FORMS	JET ENGINE PARTS AND GAS TURBINE BLADES.
548	TURBOTHERM 35CO-20								

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
=====CHEMICAL COMPOSITION,WEIGHT PERCENT=====														
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYE (Continued)														
C020,CR20-5	FE/BAL25.44MO4,NB/CB4,Ni20,N	0.45			20	20	20	4.0	4.0					BAL (25.4)
549	HERKSTOFF 1.4978 OIN	S-590	2.0 MAX.	1.0 MAX.	20-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
550	WENTON 04 2019	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
551	AMS 5533	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
552	UNITEMP S-590	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
553	ALLEGHENY METAL S-590	S-590	1.2	1.0 MAX.	18-21	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
554	ALLEGHENY METAL S-590	S-590	0.38-0.47	1-2	1.0 MAX.	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
555	ALTEMP S-590	S-590	0.38-0.47	1-2	1.0 MAX.	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
556	ATG XX	S-590	0.40			20	20	4.0	4.0					BAL (25.4)
557	2 42 CKNON 20	S-590	0.40			20	20	4.0	4.0					BAL (25.4)
558	EH 4977	S-590	0.35-0.45	1.5 MAX.	18-21	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
559	VACUTHERM 8-11M	S-590	0.35-0.45	1.5 MAX.	18-21	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
560	S-580	S-590	0.43	1.25	18-21	20	18.5-21.5	4.0	4.0					BAL (25.4)
561	HERKSTOFF 1.4971 OIN	S-590	0.38-0.47	1-2	1.0 MAX.	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
562	AT5-103	S-590	0.38-0.47	1-2	1.0 MAX.	18-21	18.5-21.5	3.5-4.5	3.5-4.5					BAL (25.4)
563	HERKSTOFF 1.4977 OIN	S-590	0.40		20	20	20	4.0	4.0					BAL (25.4)
564	WITTEN OA 2020	S-590	0.40		20	20	20	4.0	4.0					BAL (25.4)
565	TURBOTHERM 200C-20S	S-590	0.40		20	20	20	4.0	4.0					BAL (25.4)
=====														
C020,CR20-FE/BAL36,NB/CB1,3,Ni20,N0.15,N2.5		0.12			21	20	20	3.0	2.5	1.3				BAL (36)
566	HERKSTOFF 1.4971 OIN	OIN X12CRONI 2120	0.12			20	20	3.0	2.5	1.3				BAL (36)
567	WENTON 04 2019	OIN X12CRONI 2120	0.12			20	20	3.0	2.5	1.3				BAL (36)
568	WITTEN OA 2019	OIN X12CRONI 2120	0.12			20	20	3.0	2.5	1.3				BAL (36)
569	AT5 105-G (CA5T)	G-X 12 CROINI 21 20	0.12			20	20	3.0	2.5	1.3				BAL (36)
570	ANSI G81.48 (N-155)	N-155	0.08-0.16	1.0 MAX.	20.0-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.75-1.25				BAL (30.2)
571	RTG 32, 1.4974 LN	N-155	0.12-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
572	N-155, MULTI-MET	N-155	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
573	AMS 5531	N-155	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
574	AMS 5531	N-155	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
575	AMS 5532	N-155	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
576	AMS 5535	N-155	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
577	AMS 5768	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
578	AMS 5769	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
579	AMS 5794	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
580	AMS 5795,98-GROE 661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
581	AMS 5796,98-GROE 661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
582	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
583	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
584	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
585	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
586	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
587	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
588	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
589	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
590	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
591	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
592	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
593	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
594	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
595	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
596	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
597	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
598	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
599	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
600	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
601	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
602	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
603	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
604	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
605	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
606	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
607	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
608	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
609	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
610	ASTM A 587-GROE 3,661	N-155,Al51 661	0.08-0.16	1.0 MAX.	20-22.5	19-21	18.5-21.0	2.5-3.5	2.5	0.7-1.25				BAL (30.2)
=====														
C020,CR21-FE/BAL30.2,MN1.5,M03,NB/CB1,N20,N,N4		0.12			21	20	20	3.0	2.5	1.0				BAL (30.2)
611	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	20-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
612	WENTON 04 2019	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
613	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
614	FE-PA 91-NT	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
=====														
C020,CR21-FE/BAL30.2,MN1.5,M03,NB/CB1,N20,N,N2.5		0.08-0.18			20	20	20	3.0	2.5	0.75-1.25				BAL (30.2)
615	EH 4971	S-590	2.0 MAX.	1.0 MAX.	20-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
616	WENTON 04 2019	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (30.2)
=====														
C020,CR21-FE/BAL31.4,MN1.5,M03,N20,N2.5		0.05			21	20	20	3.0	2.5					BAL (31.4)
617	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	20-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
618	WENTON 04 2019	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
619	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
620	FE-PA 91-NT	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
=====														
C020,CR21-FE/BAL31.4,MN1.5,M03,NB/CB1,N20,N,N2.5		0.05			21	20	20	3.0	2.5					BAL (31.4)
621	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	20-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
622	WENTON 04 2019	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
623	HERKSTOFF 1.4971 OIN	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
624	FE-PA 91-NT	S-590	2.0 MAX.	1.0 MAX.	18-22	20	18.5-21.5	3.5-4.5	3.5-4.5					BAL (31.4)
=====														
C020,CR21-FE/BAL31.4,MN1.5,M03,NB/CB1,N20,N,N2.5		0.05			21	20	20	3						

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOY (Continued)									
C02C	CR20.5.FE/BAL25.4.M03.MB/CB1.M120.0.M4	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	STD.	CY	1.4977 DIM	R30590	MROUGHT FORMS	CAS TURBINE PARTS:BLADES,IMHEELS,BUCKETS, HELD TURBINE NOZZLE ASSEMBLIES, TAIL PIPES.
550	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0066	US	ANS 5533	R30590	SM,ST,PL	TURBINE ROTORS,SHAFTS,BUCKETS,BOLTS.
551	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	STD.	US	ANS 5533	R30590	C-15,STOCK	TURBINE ROTORS,SHAFTS,BUCKETS,BOLTS.
552	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0072	US	ANS 5533	R30590	BA.FG,SHAST,PL,FG,STK	TURBINE ROTORS,SHAFTS,BUCKETS,BOLTS.
553	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0066	US	ANS 5533	R30590	BA.FG,SHAST,PL,FG,STK	TURBINE ROTORS,SHAFTS,BUCKETS,BOLTS.
554	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0102	FR	Z 42 CKH020	R30590	MROUGHT FORMS	JET ENGINE PARTS, BUCKETS FOR GAS TURBINES.
555	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	STD.	FR	Z 42 CKH020	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
556	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0125	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
557	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0126	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
558	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0066	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
559	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	STD.	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
560	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0125	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
561	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0126	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
562	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	STD.	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
563	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0127	CY	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
564	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0136	AU	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
565	S-590	S-590	CUB.SHA.SB.0.3MAX.PB.04MAX.	C-0136	AU	1.4977 DIM	R30590	MROUGHT FORMS	AFTERBURNERS AND CAS TURBINE COMBUST. CHAMBERS.
C02D	CR20.5.FE/BAL36.0.M03.MB/CB1.3.M120.0.M15.M2.5	DIM X12CROMI 2120	M0.15	STD.	CY	1.4974 LM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
566	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
567	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
568	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
569	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
570	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
571	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
572	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
573	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
574	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
575	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
576	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
577	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
578	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
579	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
580	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
581	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
582	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
583	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
584	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
585	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
586	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
587	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
588	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
589	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
590	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
591	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
592	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
593	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
594	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
595	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
596	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
597	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
598	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
599	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
600	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
601	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
602	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
603	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
604	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
605	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
606	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
607	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
608	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
609	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
610	HERKSTOFF 1.4971 DIM	DIM X12CROMI 2120	M0.15	C-0127	CY	1.4971 DIM	R30155	MROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
C02E	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
611	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
612	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
613	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
614	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
C02F	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
615	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
616	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
617	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
C02G	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
618	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
619	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
620	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
C02H	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
621	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
622	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
623	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
624	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
625	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
626	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
627	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
628	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
629	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
630	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
C02I	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
631	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
632	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
633	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
634	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
635	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
636	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
637	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
638	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
639	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
640	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
C02J	CR21.1.FE/BAL30.2.M01.5.M03.MB/CB1.M120.0.M2.5	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
641	ATMOR Z 12 CKH020	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
642	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
643	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
644	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
645	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
646	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
647	HERKSTOFF 1.4971 DIM	M-155	M-155	STD.	FR	Z 12 CKH020	R30155	MROUGHT FORMS	CAS TURBINE ROTORS, SHAFTS, AND BLADES.
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TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CHEMICAL COMPOSITION-WEIGHT PERCENT											
			CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	NIOBENIUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)														
C021	CR17.FE/BAL30.7.NM1.5.N03.N8/CB1.N126.N12		0.32	1.5	0.5	17	24	21	3.0	2.0	1.0	---	---	8AL. (30.7)
619	N-154	N-154	0.33	1.5	0.5	17	33	24	3.0	2.0	1.0	---	---	8AL. (17.7)
620	N-156	N-156										---	---	
C025	CR15.FE/BAL15.M05.NI35.N5		0.5	0.6	0.4	15	35	25	5.0	5.0	---	---	---	8AL. (15)
621	ALLOY 42-C											---	---	
C025	CR20.FE/BAL40.NI15	G.42	---	---	---	19	15	25	---	---	---	---	---	8AL. (54.5)
622	G.42											---	---	
AL1.5	8.CO10.M00.15.NI7/8AL77.5.TI2.75.ZR0.00		0.26	---	---	19	15	25	---	---	---	---	---	---
623	G.428	G.42	0.26	---	---	20	15	25	---	---	---	---	---	8AL. (40)
624	G.428	G.428	0.26	---	---	20	15	25	---	---	---	---	---	8AL. (40)
625	JESSOP G.428	G.428	0.26	---	---	20	15	25	---	---	---	---	---	---
C030	CR20.FE/BAL13.6.M010.NI20.N5		0.2 MAX.	0.6	0.7	19.5-21.5	19-21	20.5-31.5	9-11	4.5-5.5	---	---	---	8AL. (13.6)
626	REFRACTALLOY 60	REFRACTALLOY 00										---	---	
C030	CR20.FE/BAL16.1.NM2.M06.NI21.N4.2		0.06 MAX.	2.0	0.0	19-21	19-21	20.5-31.5	0.0	4.2	---	---	---	8AL. (16.1)
627	REFRACTALLOY 70	REFRACTALLOY 70										---	---	
C035	CR20.FE2.NI35.M6		VARIES	---	---	20	35	35	---	0	---	---	---	8AL. (2)
628	CNCR											---	---	
C039	CR20.FE/BAL0.5.NI30.TI4.N6.5		0.20	---	---	20	30	39	---	6.5	---	4.0	---	8AL. (0.5)
629	G1SPLAN-I-1570											---	---	
C042	CR20.FE/BAL7.M04.N8/CB3.NI20.N4		0.40	---	---	20	20	42	4.0	4.0	3.0	---	---	8AL. (7)
630	TURBOTERN 20CO-45											---	---	
C06	CR10.5.CU1.25.FE/BAL76.5.N04.75.N0.06		0.12	0.90	0.25	10.5	---	6.0	4.75	---	---	---	---	8AL. (76.5)
631	PYROMET X-12											---	---	
C06	CR10.5.FE/BAL81.6.M00.75.N8/CB4.5.NI0.3.V0.2		0.07	0.65	0.40	10.5	0.30	6.0	0.75	---	0.45	---	---	8AL. (81.0)
632	FIRIN-VICKERS 535 ST. 535											---	---	
C07	CR12.FE/BAL0.6.M02.0.M8/CB0.25.V0.3		0.10	---	---	12	---	---	---	---	0.25	---	---	8AL. (80.6)
633	JEINETE N-210	N-210										---	---	
C07	CR16.FE/BAL50.7.M02.5.N8/CB1.75.NI18.5		0.25	3.0	0.0	16	10.5	7.0	2.5	---	1.75	---	---	8AL. (50.7)
634	326	326										---	---	
C07	CR17.CU3.FE/BAL52.M03.MI17.TI0.0		0.20	---	---	17	17	7.0	3.0	---	---	0.0	---	5AL. (52)
635	337	337										---	---	
C09	5.CR14.3.FE/BAL52.M02.N8/CB2.6.NI16.6		0.43	0.9	1.25	14.3	14.6	9.5	2.0	2.2	2.8	---	---	8AL. (52)
636	REX 3260	REX 3260										---	---	
C020	CR21.FE/BAL30.2.NM1.5.M03.N8/CB1.NI20.N.N2.5		0.00-0.16	2.0 MAX.	1.0 MAX.	20.0-22.5	19-21	10.5-21.0	2.5-3.5	2-3	0.75-1.25	---	---	8AL. (30.2)
637	NX 20 C	N-155	0.08-0.16	2.0 MAX.	1.0 MAX.	20.0-22.5	19-21	10.5-21.0	2.5-3.5	2-3	0.75-1.25	---	---	8AL. (30.2)
630	X 203	(N) (C) N-155	0.08-0.16	2.0 MAX.	1.0 MAX.	13.5-16.0	24-27	---	---	---	---	1.9-2.3	0.35 MAX.	0.003-0.010
639	VACUUTHERN 7-20	A-206	1-2	0.08 MAX.	1.0 MAX.	---	---	---	---	---	---	---	---	---
CR12.5	FE/BAL72.4.NI12.5.M2.6		0.35	---	1.5	12.5	12.5	---	---	2.6	---	---	---	8AL. (72.4)
640	POLOI KAPTOR		0.45	---	1.5	12.5	12.5	---	---	2.2	---	---	---	8AL. (72.4)
641	POLOI L-ARKO											---	---	
CR15	FE/BAL69.7.NI13.M2.3		0.45	0.75	1.5	15	13	---	---	2.3	---	---	---	8AL. (69.7)
642	POLOI L-ARKO											---	---	
CR10	FE/BAL59.2.M03.25.NI.5		0.45	---	---	18	19.5	---	3.25	---	---	---	---	8AL. (59.2)
643	POLOI ARCN											---	---	
8.CO06	7.CR10.5.FE/BAL78.6.M00.8.N8/CB0.45.NI0.7.V0.55		0.08	0.85	0.3	10.5	8.7	6.7	0.8	0.5	0.45	---	---	80RON 8AL. (78.2)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)									
D021	CR17-FE/BAL30.7	WM1.5, N03, H9/C81, N124, H2			US				
619	H-154			C-0060					
620	H-156			C-0060					
C035	CR15-FE/BAL15	H05, H135, H5			GY				JET ENGINE COMPONENTS AND TURBINE BLADES.
621	ALLOY 42-C			C-0124					
D025	CR20-FE/BAL40	MI15			UK				TURBINE BLADES.
622	G-42			C-0106					
C025	CR20-FE/BAL40	MI15			UK				
623	C-426			C-0147					
624	C-428			C-0147					
625	JESSOP C-428			C-0147					
C030	CR20-FE/BAL13.6	N01.0, N120, H5			US				CAS TURBINE COMPONENTS, NOZZLE VANES, OUGLITE.
626	REFRACTALLOY 00			C-0073					
C030	CR20-FE/BAL15.4	NH2, H08, H124, H4.2			US				HIGH TEMPERATURE APPLICATIONS.
627	REFRACTALLOY 70			C-0073					
C035	CR20-FE2	MI35, H0			US				
620	CHN								
C036	CR20-FE/BAL0.5	MI30, TI4, H6.5			UR				
629	GISPLAW-1-1570			ST0.					
C042	CR20-FE/BAL7	N04, N8/C83, H120, H4			AU				JET ENGINE PARTS AND GAS TURBINE BLADES.
630	TURBOTHERM 20C0-45			C-0138					
C066	CR10.5	CU1.25, FE/BAL70.5	N04, 75, H0.00		US				COMPRESSOR DISCS.
631	PYROMET X-12			C-0062					
C066	CR10.5	FE/BAL01.8	N00.75, N8/C80.45, H10.3, V0.2		UK				AIRCRAFT TURBINE AND COMPRESSOR DISCS, RINGS.
632	FRTH-VICKERS 535 ST.			C-0094					
D07	CR12-FE/BAL00.6	N02.8, N8/C80.25, V0.3			UK				STEAM TURBINE BLADES, JET ENGINE BLADES, DISCS.
633	JETHETE H-210			C-0148					
C07	CR16-FE/BAL50.7	N02.5, N8/C81.75, H118.5			UK				
634	326			C-0094					
C07	CR17-CU3	FE/BAL52	N03, H117, TI0.8		UK				
635	337			C-0094					
C09.5	CR14.3	FE/BAL52	N02, N8/C82.0, H114.6		UK				
636	REX 3260			C-0094					
C030	CR24-FE/BAL30.2	WM1.5, N03, H2/C81, H120, H2.5			FR				GAS TURBINE AND PETROCHEMICAL/CHEMICAL PARTS.
637	XH 20 C			C-0135					
638	X 203			C-0135					
639	VACUUTHERM 7-20			C-0135					
C12.5	FE/BAL72.4	MI12.5, H2.6			CZ				CORROSION RESISTANT PARTS.
640	POLOI KAPTOR			C-0141					
641	POLOI L-AKR			C-0141					
C15	FE/BAL69.7	MI13, H2.3			CZ				CORROSION RESISTANT PARTS.
642	POLOI L-AKRO			C-0141					
C16	FE/BAL59.2	H03.25, MI.5			CZ				CORROSION RESISTANT PARTS.
643	POLOI AKON			C-0141					
8	C06.7	CR10.5	FE/BAL70.6	N08.8, H9/C30.45, MI0.7, V0.5					CORROSION AND HEAT RESISTANT PARTS.
644	H-53			C-0147					
645	H-53								

TABLE 2. (Continued)

ALLOY NAME OR COMMON NAME OR DESIGNATION			CHEMICAL COMPOSITION, WEIGHT PERCENT													IRON
LINE	ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON	
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)																
B-607	CR10.5, FE/BAL77, MO0.4, MB/CB1.05, NI0.8, V0.35	H-58	0.12	1.3	0.3	10.5	0.8	7.0	0.4	0.4	1.85	---	---	BORON	BAL. (77)	
GROUP IV - NICKEL-BASE ALLOYS																
C010	CR13, FE/BAL54.5, MO1.8, MB/CB3, MI13, M2.5	G-188	0.40	0.8	1.0	13	13	10	1.8	2.5	3.0	---	---	---	BAL. (54.5)	
C010	CR19, FE/BAL48.5, MB/CB1.05, NI19, M2.5	G-19	0.40	0.8	1.0	19	13	10	1.8	2.5	3.0	---	---	---	BAL. (48.5)	
NI 648	PH-69/N-87047	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
649	770861	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-T10-25	8-C00.1, CR7, FE2.5, MO16.5, MI/BAL0.4, M1.25	---	0.4-0.8	1.0 MAX.	1.0 MAX.	6-8	BAL. (80.4)	0.2 MAX.	15.75-17.25	0.5 MAX.	---	SEE AL	0.50 MAX.	0.01 MAX.	5.0 MAX.	
650	UMITEP HN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-8	C010, CR19, MO10, NI/BAL56.2, TI2.6	M-252, J-1500	0.15	0.50	0.50	19	BAL. (56.2)	10	10	---	---	2.6	1.0	0.005	---	
651	UCAR ALLOY N-252	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-C0	CR-H0, MI52, TI-M	---	---	---	---	---	52	COBALT	MOLYBDENUM	TUNGSTEN	---	TITANIUM	ALUMINUM	BORON	---	
652	G1KH52KHVUT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-05	CR16.4, FE6.7, M2.2, NI/BAL71.6, TI3.05	---	0.03	2.2	0.1	16.4	BAL. (71.6)	---	---	---	---	3.05	0.05	---	6.7	
653	CARPENTER PYROMET 80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.6	B-C01, CR12.5, FE/BAL26.7, MO6, MI4.9, S, TI3.7	---	0.03	---	---	12.5	49.5	1.0	6.0	---	---	---	0.6	0.015	BAL. (26.7)	
654	MINOMIC ALLOY 942	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.1	C010, CR20.5, FE0.5, MO10.2, NI/BAL58.6, TI0.1	---	0.27-0.40	0.2-0.5	0.2-0.45	18-23	BAL. (58.6)	9-11	9.5-11.0	---	---	0.30 MAX.	0.20 MAX.	---	1.0 MAX.	
655	AMC 11	---	---	---	---	---	BAL. (58.6)	9-11	9.5-11.0	---	---	0.30 MAX.	0.20 MAX.	---	1.0 MAX.	
656	BS 1346/2, AMC 11 (C)	---	0.27-0.40	0.2-0.5	0.2-0.45	18-23	BAL. (58.6)	9-11	9.5-11.0	---	---	0.30 MAX.	0.20 MAX.	---	1.0 MAX.	
657	MINOCAST C-242 (CAST)	---	0.30	0.30	0.3	22	BAL. (57.0)	10	10	---	---	0.3 MAX.	0.2 MAX.	---	1.0 MAX.	
AL-0.15	CR20.5, FE3.3, MI/BAL75, TI0.25	---	0.12	0.70	0.80	19-23	75	---	---	---	---	0.4	0.2	---	BAL. (3.0)	
658	G1KH75T	---	---	---	---	---	75	---	---	---	---	0.4	0.2	---	BAL. (3.0)	
659	G1KH80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.17	C00.5, CR15.5, FE8, MB/CB0.05, NI72, TI0.25	---	0.15 MAX.	1.0 MAX.	0.50 MAX.	14-17	72 MIN + CO	1.0 MAX.	---	---	---	1.0 MAX.	0.35 MAX.	---	---	
660	MIL-N-6840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.2	CR13, MO5.5, MI2.5, TI2.75	---	0.06	---	---	13	42.5	---	5.5	---	---	2.75	0.20	BORON }	---	
661	G-101	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.2	C00.5, CR16, FE4, MO0.5, MB/CB2.9, NI41.5, TI1.75	---	0.03	0.18	0.18	16.0	39-44	---	---	---	2.9	1.75	0.20	---	4.0	
662	IMCONEAL ALLOY 706	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
663	AMS 5605	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
664	AMS 5606	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
665	AMS 5701	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
666	AMS 5702	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
667	AMS 5703	---	---	---	---	---	39-44	---	---	---	2.5-3.3	1.5-2.0	0.40 MAX.	0.006 MAX.	BAL. (40)	
AL-0.2	C010, CR20, FE1, MO18, MI/BAL57.6, TI0.3	---	0.27-0.35	0.20-0.50	0.20-0.50	20-23	BAL. (57.6)	9.5-11.0	18-11	---	G-MICR21CON	0.30 MAX.	0.20 MAX.	---	0.75 MAX.	
668	ATS 301-G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
AL-0.2	C03, CR20, FE5, NI/BAL57.7, TI0.4	---	0.10	0.40	0.30	20	BAL. (57.7)	3.0 MAX.	---	---	---	0.4	0.2	---	5.0 MAX.	
669	MINOCAST ALLOY 75 (C)	---	---	---	---	---	BAL. (57.7)	2.0 MAX.	---	---	---	2.0 MAX.	0.10-0.40	---	2.0 MAX.	
670	ATS 200-G	---	0.08-0.12	0.20-0.50	0.20-0.60	18.5-20.5	---	---	---	---	---	---	---	---	---	
AL-0.2	CR19.5, CU0.25, FE2.5, NI/BAL77.2, TI0.4	---	0.08-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (77.2)	---	---	---	---	0.2-0.6	0.2	---	5.0 MAX.	
671	MINOMIC C75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

TABLE 2. (Continued)

ALLOY NAME OR LINE ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP III - CHROMIUM, NICKEL, COBALT, IRON ALLOYS (Continued)								
B-67 CR10-5-FE/BAL77-M00-4-MB/CB1-05-N10-8-V0-35 645 H-50		V0-35	C-0147	UK			WROUGHT FORMS	
C010-CR13-FE/BAL54-5-M01-8-MB/CB3-M113-M2-5 646 G-108			C-0147	UK			WROUGHT FORMS	
C010-CR19-FE/BAL48-5-MB/CB1-M119-M2-5 647 G-119	(CAST) G-119		C-0147	UK			INVESTMENT CASTINGS	
GROUP IV -- NICKEL-BASE ALLOYS								
NI								
648 PH-69/M-07047			STO.	PO	PH-69/M07047		WROUGHT FORMS	
649 PH-77/0061			STO.	PO	PH-77/0061		WROUGHT FORMS	
AL+Ti0-25-8-C00-1-CR7-FE2-5-M016-5-MI/BAL80-4-M1-25 650 UNITEMP MH		S0-02MAX-P0-015MAX.	C-0072	US	AMS 5607		8A-B1, PL-SH	GOOD RESISTANCE TO FLUORIDE SALTS.
AL-5C010-CR19-M010-MI/BAL56-2-T12-6 651 UCAR ALLOY M-252	M-252, J-1500		C-0161	UK		M07252	INGOT, 81	
AL-C0-CR-M0-MI52-TI-M 652 GIKM52KHVUT			STO.	UR			WROUGHT FORMS	
AL-0-05-CR16-4-FE6-7-MW-2-MI/BAL71-6-T13-05 653 CARPENTER PYROMET 88		S0-007, CU0-04	C-0042	US			8A-B1	JET ENGINE AND GAS TURBINE PARTS.
AL-0-6-8-C01-CR12-5-FE/BAL26-7-M06-M149-5-T13-7 654 MINOMIC ALLOY 942			C-0074	UK			8A-B0-0, FC-M-R, SECTION	GAS TURBINE DISCS, BLADES, SHAFTS, T011202F/650C.
AL-0-1-C010-CR20-5-FE0-5-M010-2-MI/BAL50-6-T10-1 655 ANC 11	(CAST) MI/CAST 242, C242		STO.	UK	BS 3145 PT-2		INVESTMENT CASTINGS	GOOD THERMAL SHOCK AND OXIDATION RESISTANCE.
656 BS 1346/2, ANC 11 (C)	MINOCAST 242, C242		STO.	UK	BS 3146 PT-2		INVESTMENT CASTINGS	GOOD THERMAL SHOCK AND OXIDATION RESISTANCE.
657 MINOCAST C-242 (CAST)	MINOCAST C-242		C-0074	UK			CASTING ALLOY	TURBINE NOZZLE GUIDE VANES, HIGH-TEMP. CASTINGS.
AL-0-15-CR20-5-FE3-MI/BAL75-T10-25 658 GIKM75T 659 GIKM80	E1435 E1435		STO.	UR			WROUGHT ALLOY	COMBUSTION CAMS, TAILPIPPES, AFTERBURNER LINERS.
AL-0-17-C00-5-CR15-5-FE0-MB/CB0-05-M172-T10-25 660 MIL-N-6840*	MI-CR-FE ALLOYS		STO.	US	MIL-N-6840		PL-SH, ST	COMBUSTION CAMS, TAILPIPPES, AFTERBURNER LINERS.
AL-0-2-8-CR13-M05-5-M142-5-T12-75 661 G-101		CU0-50MAX, S0-015 MAX.	STO.	US				
AL-0-2-C00-5-CR16-FE4-M00-5-MB/CB2-9-M141-5-T11-75 662 INCONEL ALLOY 706	INCONEL ALLOY 706		C-0067	US	AMS 5605		WROUGHT FORMS	
663 AMS 5605		CU0-15-S0-008	STO.	US	AMS 5605	N09706	SH-ST, PL	STIMILAR TO INCONEL 710, MORE MACHINABLE.
664 AMS 5701		CU0-3M-S0-015MAX-P0-02MAX.	STO.	US	AMS 5605	N09706	SH-ST, PL	SHORT TIME USE TO T011300F/704C.
665 AMS 5701		CU0-3M-S0-015MAX-P0-02MAX.	STO.	US	AMS 5606	N09706	SH-ST, PL	RESISTANCE TO CREEP TO T01300F/704C.
666 AMS 5701		CU0-3M-S0-015MAX-P0-02MAX.	STO.	US	AMS 5701	N09706	BA-FG-RINGS	SHORT TIME USE TO T01000F/538C.
667 AMS 5703		CU0-3M-S0-015MAX-P0-02MAX.	STO.	US	AMS 5702	N09706	BA-FG-RINGS	STRESS RUPTURE RESISTANCE TO T01300F/704C.
AL-0-2-C010-CR20-FE1-M010-MI/BAL57-6-T10-3 668 ATS 301-G	(CAST) MINOCAST 242, C 242	S0-02MAX-P0-02MAX, CU0-M0-M, C-0151	C-0151	GY	2-4958		EASTINGS	
AL-0-2-C03-CR20-FE5-MI/BAL57-7-T10-4 669 MINOCAST ALLOY 75 (C)	MINOCAST 75		C-0074	UK			INVESTMENT CASTINGS	HIGH-TEMPERATURE APPLICATIONS.
670 ATS 200-G	(CAST) MINOCAST 75-8S ANC 8		C-0151	GY			INVESTMENT CASTINGS	JET ENGINE PARTS.
AL-0-2-CR19-5-CU0-25-FE2-5-MI/BAL77-2-T10-4 671 MINOMIC C75	(CAST) MINOMIC C75	CU0-2	C-0074	UK			CASTING ALLOY	JET ENGINE, GAS TURBINE PARTS, FURNACE PARTS.

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
AL0.2	CR21.5,FE2.5,MO9,N161,Ti0.2	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
672	WERKSTOFF 2.4656 DIN	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
673	EASTERN ALLOY 625	INCONEL ALLOY 625	0.05	0.15	0.3	22	BAL. (61)	1.0 MAX.	9-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
674	NICKELVAC 625	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	9-10	---	3.65	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
675	ATC 62	INCONEL ALLOY 625	0.07	---	---	21-5	BAL. (61)	---	9-10	---	3.65	---	---	---	5-8 MAX.
676	AFNOR NC 22 FE 0 NB	INCONEL ALLOY 625	0.07	---	---	21-5	BAL. (61)	---	9-10	---	3.65	---	---	---	5-8 MAX.
677	WERKSTOFF 2.4656 DIN	INCONEL ALLOY 625	0.07 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
678	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
679	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.08 MAX.	1.0	0.70	16-17	70 MIN	---	---	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
680	PYROMET 625	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
681	INCONEL ALLOY 625	INCONEL ALLOY 625	0.05	0.15	0.30	22	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
682	INCONEL ALLOY 625	INCONEL ALLOY 625	0.05	0.15	0.30	22	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
683	INCONEL ALLOY 625	INCONEL ALLOY 625	0.05	0.15	0.30	22	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
684	UOMET 625	INCONEL ALLOY 625	0.05	0.15	0.30	22	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
685	CARPENTER PYROMET 625	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
686	AMS 5599	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
687	AMS 5637	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
688	ASTM B 443	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
689	ASTM B 446	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
690	ASTM B 448	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
691	ASTM B 449	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
692	ASME SB843	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
693	ASME SB844	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
694	ASME SB846	INCONEL ALLOY 625	0.10 MAX.	0.50 MAX.	0.50 MAX.	20-23	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
695	UCAR ALLOY IN-625	INCONEL ALLOY 625	0.05	0.15	0.30	22	BAL. (61)	1.0 MAX.	0-10	---	3.15-4.15	0.40 MAX.	0.40 MAX.	---	5-8 MAX.
AL0.25,0.000,1,CR27,FE25,MO16,N17,BAL70.5,VO.2,NI3.75															
696	ANSI H34-20 (ASTM F 1575)	INCONEL ALLOY 625	0.04-0.08	1.0 MAX.	1.0 MAX.	6-8	BAL. (70.5)	0.20 MAX.	15-18	0.5 MAX.	---	---	0.50	0.10 MAX.	5.0 MAX.
AL0.25,CR16,FE9.5,NI72.5,CO9.1															
697	SANOVIC SANICRO 71	ALLOY 600	0.95	0.0	0.35	16	72.5	---	---	---	---	0.35	0.25	---	9.5
AL0.3,0.000,5,CR22.5,FE35,MO6,NI42.5,Ti2.8															
698	INCOLOY ALLOY 901	INCONEL ALLOY 901	0.05	0.45	0.40	13-5	40-45 + CO	---	6-2	---	---	2.5	0.25	0.015	BAL. (35.6)
699	ALSI 602	INCONEL ALLOY 901	0.10 MAX.	1.0 MAX.	0.60 MAX.	11-14	40-45 + CO	1.0 MAX.	5-7	---	---	2.5-3.10	0.35 MAX	0.010-0.020	BAL. (35.6)
AL0.3,CR12.5,FE35,MO5.7,NI42.5,Ti2.9															
700	NIMONIC ALLOY 901	NIMONIC 901	0.04	1.0	0.50	12-5	42.5	---	5-7	---	2.9	0.3	0.3	0.010-0.020	BAL. (35)
701	PYRAO 44 0	NIMONIC 901	0.10	---	---	11-14	42.5	1.5	5-7	---	2.6-3.1	0.30	0.30	---	35
702	RSAB MS 16	NIMONIC 901	0.04	---	---	12-5	42.5	---	5-7	---	2.9	0.3	0.30	---	35
703	BS MR 53	NIMONIC 901	---	---	---	20	BAL. (42.5)	SEI	5.0	---	3.0	2.1	0.5	---	BAL. (35)
704	BS MR 404	NIMONIC 901	---	---	---	12-5	42.5	---	5-7	---	2.9	0.3	0.5	---	35
705	AECMA FE-PA 99-MT	NIMONIC 901	0.04	---	---	12-5	42.5	---	5-7	---	2.9	0.3	0.3	---	35
706	QIN NCR MC 0742	NIMONIC 901	---	---	---	12-5	42.5	---	5-7	---	2.9	0.3	0.3	---	35
707	EN2176(PH)-2.4662 LN	NIMONIC 901	0.10 MAX.	0.5 MAX.	0.40	11-14	40-45	1.0 MAX.	5-7	---	2.6-3.1	0.35 MAX.	0.35 MAX.	0.01-0.02	BAL. (35)
708	EN2176(PH)-2.4662 LN	NIMONIC 901	0.10 MAX.	0.5 MAX.	0.40	11-14	40-45	1.0 MAX.	5-7	---	2.6-3.1	0.35 MAX.	0.35 MAX.	0.01-0.02	BAL. (35)
709	EN2176(PH)-2.4662 LN	NIMONIC 901	0.10 MAX.	0.5 MAX.	0.40	11-14	40-45	1.0 MAX.	5-7	---	2.6-3.1	0.35 MAX.	0.35 MAX.	0.01-0.02	BAL. (35)
710	EN2176(PH)-2.4662 LN	NIMONIC 901	0.10 MAX.	0.5 MAX.	0.40	11-14	40-45	1.0 MAX.	5-7	---	2.6-3.1	0.35 MAX.	0.35 MAX.	0.01-0.02	BAL. (35)
AL0.3,CR20,NI/BAL78.6,Ti10.5,VO20.6															
711	INCONEL ALLOY M754	INCONEL M754	0.05	---	---	20	BAL. (70.6)	---	---	---	0.5	0.3	0.3	---	---
AL0.35,0.001,CR13.3,FE/BAL35,MO6,NI42.5,Ti3															
712	WERKSTOFF 2.4662 LN	---	0.10 MAX.	0.50 MAX.	0.40 MAX.	11-14	40-45	1.0 MAX.	5.0-6.5	---	---	2.6-3.1	0.35 MAX.	0.01-0.02	BAL. (35)
AL0.45,0.020,CR20,FE0.35,MO6,NI/BAL51.6,Ti2															
713	NIMONIC ALLOY C263	NIMONIC C263	0.06	---	---	20	BAL. (51.1)	20	5.9	---	---	2.15	0.45	0.001 MAX.	---
AL0.45,0.020,CR20,FE0.35,MO6,NI/BAL51.6,Ti2															
714	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.04-0.08	0.2-0.6	0.1-0.4	19-21	BAL. (52.2)	19-21	5.6-6.1	---	---	1.9-2.4	0.3-0.6	---	0.70 MAX.
715	BS 3146/3 VMA 5(CAST)	C-263,NIMONIC 263	0.04-0.08	0.60 MAX.	0.40 MAX.	19-21	BAL. (51.6)	19-21	5.6-6.1	---	---	1.9-2.4	0.3-0.6	---	0.7 MAX.
AL0.5,0.001,CR20,FE0.5,MO4.5,NB/CB5,NI/BAL53.3,Ti2.3															
716	NIMONIC ALLOY PK31	NIMONIC PK31	0.05	0.10 MAX	0.15	20	BAL. (53.3)	14	4.5	---	5.0	2.3	0.5	0.03	0.05
AL0.5,0.001,CR15,FE7,MO2.9,NB/CB2.9,NI/BAL67.8,Ti10.5,N3,2R0.03															
717	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.00 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	---	2.75-3.25	2.7-3.25	2.75-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
718	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.00 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	---	2.75-3.25	2.7-3.25	2.75-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
719	ANSI H34-20 (INC. 625)	INCONEL ALLOY 625	0.00 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	---	2.75-3.25	2.7-3.25	2.75-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
720	PORL 102 (HRTI/CAST)	IN-102	0.06	0.02	---	15	68	---	2.9	---	3.0	0.50	0.40	0.005	7.0 MAX.
721	UCAR ALLOY IN-102	IN-102	0.06	0.02	---	15	68	---	2.9	---	3.0	0.5	0.5	0.005	7.0 MAX.
722	IN-102	IN-102	0.10 MAX.	0.75 MAX.	0.40 MAX.	15-16	BAL. (67.0)	---	2.75-3.25	2.75-3.2	2.7-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
723	CARPENTER PYROMET 102	IN-102	0.10 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	---	2.75-3.25	2.75-3.2	2.7-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
724	ASTM B 510	IN-102	0.00 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	---	2.75-3.25	2.75-3.2	2.7-3.25	0.4-0.7	0.3-0.6	0.003-0.008	5-9
725	ASTM B 510	IN-102	0.00 MAX.	0.75 MAX.	0.40 MAX.	14-16	BAL. (67.0)	NB 0.75 MIN	2.75-3.25	2.75-3.2	0.75NBI/0.07M	0.4-0.7	0.3-0.6	0.003-0.008	5-9

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
672	AL 2024-T3	AL 2024-T3							
673	AL 2024-T3	AL 2024-T3							
674	AL 2024-T3	AL 2024-T3							
675	AL 2024-T3	AL 2024-T3							
676	AL 2024-T3	AL 2024-T3							
677	AL 2024-T3	AL 2024-T3							
678	AL 2024-T3	AL 2024-T3							
679	AL 2024-T3	AL 2024-T3							
680	AL 2024-T3	AL 2024-T3							
681	AL 2024-T3	AL 2024-T3							
682	AL 2024-T3	AL 2024-T3							
683	AL 2024-T3	AL 2024-T3							
684	AL 2024-T3	AL 2024-T3							
685	AL 2024-T3	AL 2024-T3							
686	AL 2024-T3	AL 2024-T3							
687	AL 2024-T3	AL 2024-T3							
688	AL 2024-T3	AL 2024-T3							
689	AL 2024-T3	AL 2024-T3							
690	AL 2024-T3	AL 2024-T3							
691	AL 2024-T3	AL 2024-T3							
692	AL 2024-T3	AL 2024-T3							
693	AL 2024-T3	AL 2024-T3							
694	AL 2024-T3	AL 2024-T3							
695	AL 2024-T3	AL 2024-T3							
696	AL 2024-T3	AL 2024-T3							
697	AL 2024-T3	AL 2024-T3							
698	AL 2024-T3	AL 2024-T3							
699	AL 2024-T3	AL 2024-T3							
700	AL 2024-T3	AL 2024-T3							
701	AL 2024-T3	AL 2024-T3							
702	AL 2024-T3	AL 2024-T3							
703	AL 2024-T3	AL 2024-T3							
704	AL 2024-T3	AL 2024-T3							
705	AL 2024-T3	AL 2024-T3							
706	AL 2024-T3	AL 2024-T3							
707	AL 2024-T3	AL 2024-T3							
708	AL 2024-T3	AL 2024-T3							
709	AL 2024-T3	AL 2024-T3							
710	AL 2024-T3	AL 2024-T3							
711	AL 2024-T3	AL 2024-T3							
712	AL 2024-T3	AL 2024-T3							
713	AL 2024-T3	AL 2024-T3							
714	AL 2024-T3	AL 2024-T3							
715	AL 2024-T3	AL 2024-T3							
716	AL 2024-T3	AL 2024-T3							
717	AL 2024-T3	AL 2024-T3							
718	AL 2024-T3	AL 2024-T3							
719	AL 2024-T3	AL 2024-T3							
720	AL 2024-T3	AL 2024-T3							
721	AL 2024-T3	AL 2024-T3							
722	AL 2024-T3	AL 2024-T3							
723	AL 2024-T3	AL 2024-T3							
724	AL 2024-T3	AL 2024-T3							
725	AL 2024-T3	AL 2024-T3							

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT															
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	MISCELLANEOUS			ALUMINUM	BORON	IRON
										TUNGSTEN	COLUMBIUM	TITANIUM			
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
AL 8.5-C020-CR20-FE8.3-M0.6-NI/BAL51.112.5-M8.1	726	WERKSTOFF 2-4672 LN	0.84-0.06	8.60 MAX.	0.40 MAX.	19-21	BAL. (51)	19-21	5.6-6.1	0.2 MAX.	0.3-0.6	1.9-2.4	AL712.4-2.	8.70 MAX.	
C263															
727	MIGIN ALLOY C263	NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	20	BAL. (51.4)	20	5.65		2.2	0.5			
728	BS 3146/3 VMA 5(CAST)	NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	20	BAL. (51)	20	5.6		2.2	0.45			8.7 MAX.
729	PERMOCAL ALLOY 263	NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	20	BAL. (51)	20	5.6-6.1		2.2	0.5			
730	VERCALLOY C-263	NIMONIC 263	0.04	0.6	0.4	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.30-0.60			0.70
731	UCAR ALLOY C-263	NIMONIC 263	0.04	0.6	0.4	20	BAL. (51)	20	5.6		2.15	0.45			0.5
732	BS MR 18	NIMONIC 263	0.03	0.6	0.4	20	BAL. (51)	20	5.9		2.1	0.5			
733	AMS MR	NIMONIC 263	0.03	0.6	0.4	28	BAL. (51)	28	5.9		2.7	0.5			
734	AFMOR MCK 200	NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	28	51	28	5.9		2.8	0.5			
735	EM2199(PRI)-2.4650 LN	NIMONIC 263-NIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
736	EM2200(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
737	EM2201(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
738	EM2202(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
739	EM2203(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
740	EM2204(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
741	EM2205(PRI)-2.4650 LN	NIMONIC 263-MIP 105MT	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. ()	19-21	5.6-6.1		1.9-2.4+Ti	0.5	0.002-0.006	0.7 MAX.	
742	ATG MR	NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	28	BAL. (51)	20	5.9		2.2	0.45			0.7 MAX.
743	AFMOR MCK 20 0	NIMONIC 263	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	20	5.9		2.15	0.45			0.7 MAX.
744	WERKSTOFF 2-4650 LN	NIMONIC 263	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.3-0.6			8.7 MAX.
745	AECHA MI-P 185-MT	NIMONIC 263-C-263	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.3-0.6			0.7 MAX.
746	YAKUMETL ATS 331-G(C)	C-263-MV 1426	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.3-0.6			0.75 MAX.
747	ATS 331-G	C-263-MV 1426	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.3-0.6			0.75 MAX.
748	ISO 16 (DRAFT)	NIMONIC 263	0.04-0.08	0.60 MAX.	0.4 MAX.	19-21	BAL. (51)	19-21	5.6-6.1		1.9-2.4	0.3-0.6			0.7 MAX.
749	VACUUMTHERM C 263	C-263, NIMONIC 263	0.06	0.6 MAX.	0.4 MAX.	28	BAL. (51)	20	6.0		2.2	0.45	0.004		
AL 0.5-CR15-FE7-M0.2-M0.2-9-MB/CB2.9-NI/BAL67.8-Ti0.5-M3.2R-0.025															
750	PYROMET 102	IN 102	0.18 MAX.	8.50 MAX.	0.50 MAX.	14-16	BAL. (67.8)		2.75-3.75	2.7-3.75	0.4-0.7	8.3-8.6	0.003-0.006	5-9	
AL 0.5-CR19-FE10.5-M0.3-0.5-MB/CB5.13-M152.5-Ti0.9															
751	INOMEL ALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (19)		
752	CARPENTER PYROMET 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
753	VERCALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
754	VERCALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
755	ALVAC 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
756	EASTERN MO. 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
757	AMS 5383	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
758	AMS 5589	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
759	AMS 5590	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
760	AMS 5596	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
761	AMS 5597	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
762	AMS 5598	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
763	AMS 5599	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
764	AMS 5600	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
765	AMS 5601	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
766	WERKSTOFF 1-4790 QIN	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
767	AIR 9165-121	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
768	VACUUMTHERM 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
769	ATG CI	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
770	AFMOR MC 19 FE HB	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
771	VERCALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
772	VERCALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
773	PROMET 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
774	UCAR ALLOY 718	INOMEL ALLOY 718	0.18 MAX.	8.50 MAX.	0.75 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
775	YAKUMETL ATS 270	INOMEL 718ALLVAC 7	0.02-0.08	0.35 MAX.	0.30 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
776	ATS 270	INOMEL 718ALLVAC 7	0.02-0.08	0.35 MAX.	0.30 MAX.	17-21	50-55	1.0 MAX.	2.6-3.3		4.5-5.7	0.2-1.0	BAL. (18.5)		
777	RSAB MS-06	INOMEL ALLOY 718	0.04	0.35 MAX.	0.30 MAX.	19	52.5		3.0		5.1	0.9	0.006 MAX.	BAL. (18.5)	
778	OIN MICR 18004HOTIAL	INOMEL ALLOY 718	0.04	0.35 MAX.	0.30 MAX.	19	52.5		3.0		5.1	0.9	0.006 MAX.	BAL. (18.5)	
779	RTG 601.2-4668 LN	INOMEL ALLOY 718	0.04	0.35 MAX.	0.30 MAX.	19	52.5		3.0		5.1	0.9	0.006 MAX.	BAL. (18.5)	
780	BS 3146/3 VMA 13 (C)	PHA 649 INCONEL 710	0.06	0.35 MAX.	0.30 MAX.	19	52.5		3.0		5.1	0.9	0.006 MAX.	BAL. (18.5)	
AL 0.5-CR25-FE2-M1/BAL57.5-Ti0.5-M14.5															
781	GIMK2M60V15	EI868	0.09	0.33	0.40	23-28	BAL. (57.5)		13.76		0.56	0.32			0.91
782	GOST IEI868	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
783	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
784	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
785	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
786	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
787	GOST IEI868	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
788	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
789	GIMK2M60V15	EI868	0.10	0.33	0.40	23-28	BAL. (57.5)		13.16		0.56	0.32			0.91
790	GIMK2M60V15	EI868													

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMISSION NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY	UNCLASSTED	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL 0.5-6020.0-GR20-FE0.3-M0.8-NI/8AL 51.1Ti-5Nb-1	726 NERKSTOFF 2.4672 LN			STO.	CY	2.4672 LN			INVESTMENT CASTINGS	
AL 0.5-6020.0-GR20-M0.5-3Ni-51.1Ti-2	727 NERGIN ALLOY C263			C-0874	UK	MSR 7040				CAS TURBINE JET PIPES, THRUST REVERSERS.
728 BS 3146/3 VNA 51CAST1				C-0865	UK	BS NR 10				JET ENGINE PARTS, SHEET METAL PARTS, TO11562F/050C.
729 NIMONIC 263				C-0874	UK	BS NR 10				CAS TURBINE RINGS, SHEET METAL PARTS, TO11562F/050C.
730 PER 263				C-0135	FR	BS NR 10				
731 UCAR ALLOY C-263				C-0161	UK	BS NR 10				
732 BS 3146				STO.	UK	BS NR 10				
733 NIMONIC 263				STO.	UK	BS NR 10				
734 NIMONIC 263				STO.	UK	BS NR 10				
735 EN219(PRI)-2.4650 LN				STO.	FR	NGK 280				
736 EN220(PRI)-2.4650 LN				STO.	EU	NI-P 105-MT				
737 EN220(PRI)-2.4650 LN				STO.	EU	NI-P 105-MT				
738 EN220(PRI)-2.4650 LN				STO.	EU	NI-P 105-MT				
739 EN220(PRI)-2.4650 LN				STO.	EU	NI-P 105-MT				
740 ATG 331, 2.4650 LN				STO.	EU	NI-P 105-MT				
741 NIMONIC 263				C-0180	UK	NI-P 105-MT				
742 NIMONIC 263				C-0182	FR	NI-P 105-MT				
743 AFMR NCK 20 D				STO.	FR	NCK 20 DA				
744 NERKSTOFF 2.4650 LN				STO.	FR	NCK 20 DA				
745 ACHNA NI-P 105-MT				STO.	FR	NI-P 105-MT				
746 VAKUMELT ATS 331-GIC1				C-0151	FR	NI-P 105-MT				
747 ATS 331-G				C-0151	FR	NI-P 105-MT				
748 ISO 18 (TORAFIT)				C-0151	FR	NI-P 105-MT				
749 VACUUMERN C 263				C-0153	FR	NI-P 105-MT				
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	750 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	751 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	752 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	753 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	754 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	755 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	756 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	757 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	758 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	759 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	760 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	761 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	762 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	763 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	764 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	765 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	766 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	767 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	768 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	769 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	770 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	771 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	772 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	773 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	774 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	775 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	776 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	777 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	778 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	779 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	780 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	781 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	782 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	783 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	784 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	785 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	786 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	787 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	788 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	789 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.
AL 0.5-GR15-FE7-M0.2-N02-9-NB/CB2-9-NI/BAL67-8-TiO-5	790 PRYOMET 102			C-0042	US	AMS 5550				TUBING FOR TURBINES.

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
AL 0.53	CR19-47.FE21.3MI55.68.TI1.44		0.24	8.44	0.87	19.47	55.68			13-16		1.44	0.53		21.33
791	G1KM20N60TY		0.24	8.44	0.87	19.47	55.68					1.44	0.53		21.33
792	G112N														
AL 0.55	CR20.5FE1.5MO1.95.NB/C00.11.NI/BAL75.3.TI16.55		0.10 MAX.	0.4 MAX.	0.8 MAX.	19-22	BAL. (75.3)		1.8-2.3		8.9-1.3	0.35-0.75	0.35-0.75		3.0 MAX.
793	G08N75H0TY		0.10 MAX.	0.4 MAX.	0.8 MAX.	19-22	BAL. (75.3)		1.8-2.3		8.9-1.3	0.35-0.75	0.35-0.75		3.6 MAX.
794	G1KRN75H0TY														
AL 0.16	8.C00.5.CR19.C00.1.FE/BAL21.4.NB/C05.MI52.5.TI0.9.ZR8.05		0.02-0.10	8.35 MAX.	0.35 MAX.	17-21	50-55	1.0 MAX.	2.8-3.3		4.75-5.54TA	8.65-1.15	8.4-0.8	8.006 MAX.	BAL. (21.4)
795	BS 3146/3 VMA 13 (C) PM 656/AMS 5383														
AL 0.6	CR19.2.FE/BAL1.3.NI76.TI2.1		8.09	0.12	0.62	19.2	76					2.1	0.6		BAL. (1.3)
796	REX 460														
797	G1KM60TY					19.65	BAL. (76.4)					1.17	0.6		
AL 0.63	CR21.NI75.TI2.45		0.10 MAX	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.8 MAX.				1.8-2.7	0.5-1.8		5.6 MAX
798	NIMONIC 88		0.10 MAX	1.0 MAX.	1.0 MAX.	18-21	75					0.5-1.1	0.5-1.1		2.5
799	G1KRN75H0TY					19-22	BAL. (75)					2.8-2.9	0.5-1.1		4.0
800	G1KHM80TY					19-22	BAL. (75)					2.8-2.8	0.5-1.1		4.0
801	G1KHM80TY					19-22	BAL. (75)					2.8-2.8	0.5-1.1		4.8
802	G1KHM80TY					19-22	BAL. (75)					2.8-2.8	0.5-1.1		4.8
803	G0ST1E1437A		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
804	G1KHM7TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
805	G1KHM7TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
806	G1KHM7TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
807	G1KHM7TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
808	G1KHM7TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.8	0.5-1.1		4.8
809	G1KHM80TY		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.9	0.5-1.1		2.5
810	G0ST1E1422		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.8-2.9	0.5-1.1		2.5
811	G0ST1E1658		0.06	8.35	0.65	18-22	BAL. (75)	1.0 MAX.				2.8-2.9	0.5-1.1		2.5
812	G1KHM7TY		0.06	8.35	0.65	18-22	BAL. (75)	1.0 MAX.				2.3-2.7	0.45-0.55	8.605-8.008	1.0
813	G1KHM80TY		0.06	8.35	0.65	18-22	BAL. (75)	1.0 MAX.				2.3-2.7	0.45-0.55	8.605-8.008	1.8
814	G1KHM80TY		0.06	8.35	0.65	18-22	BAL. (75)	1.0 MAX.				2.3-2.7	0.45-0.55	8.605-8.008	1.8
815	G0ST1E1437		0.08	8.60	1.0	19-22	BAL. (75)	1.0 MAX.				2.3-2.7	0.45-0.55	8.605-8.008	1.8
AL 0.67	CR19.7.NI/BAL77.4.TI2.23		0.85			19.7	BAL. (77.4)					2.23	0.67		
816	G1KM80TY														
AL 0.7	CR19.5.MI4.5.NI/BAL76.4.TI1.17		0.86 MAX.			18.5	BAL. (69.3)		4.5	4.5		2.5	0.7	0.01 MAX.	4.0 MAX.
817	G0ST1E1437R														
AL 0.7	CR15.5.FE7.NB/C08.95.NI73.TI2.5		0.10-0.28	8.50 MAX.	0.50 MAX.	18-28	BAL. (56.2)	9-11	9-11			2.25-2.75	0.75-1.25	8.603-0.618	5.6 MAX.
818	J-1500	M-252, J-1580	0.08 MAX.	1.0 MAX.	0.50 MAX.	18-17	73	0.20 MAX.				2.25-2.55	0.4-1.0		5-9
819	MIL-5-1937*	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
820	MIL-J-848-A-562	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
821	G0ST1E1437A (CAST)	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
822	CASINOEL ALLOY X-750	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
823	WICKELVAC X-750	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
824	WICKELVAC X-750	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
825	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
826	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
827	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
828	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
829	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
830	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
831	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
832	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
833	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
834	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
835	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
836	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
837	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
838	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
839	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
840	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
841	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
842	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
843	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
844	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
845	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
846	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
847	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
848	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
849	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
850	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
851	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
852	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
853	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
854	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
855	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
856	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
857	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
858	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
859	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
860	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
861	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
862	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
863	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
864	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
865	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
866	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
867	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
868	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
869	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
870	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX.	0.58 MAX.	18-17	73	0.28 MAX.				2.25-2.55	0.4-1.0		5-9
871	MIL-N-7556	INCONEL ALLOY X-750	0.07 MAX.	1.0 MAX											

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	GTRY CODE	PRIME PUBLIC STANDARD	UNTS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL 0.53	GR40.47.FECL.3.NI55.68.TI1.44			STO.	UR			NR0UGMT ALLOY	
792	G1K2M001YU			STO.	UR			NR0UGMT ALLOY	
792	G11Z			STO.	UR			NR0UGMT ALLOY	
AL 0.55	GR20.5.FE1.5.N01.95.NB/CB6.11.NI/BAL75.3.TI8.1			STO.	UR	GOST 5632-72 GOST 5632-72		NR0UGMT FORMS NR0UGMT FORMS	COMBUSTION CANS-TAILPIPPES-AFTERBURNER LINERS. COMBUSTION CANS-TAILPIPPES-AFTERBURNER LINERS.
793	GOST IE1602			STO.	UR				
794	G1KNM5H7YU			STO.	UR				
AL 0.6-B	CO8.5.GR19.GU0.1.FE/BAL21.4.NB/CB6.NI52.5.TI			STO.	UK	BS 3146PT.3		INVESTMENT CASTINGS	VACUUM MELTEO CASTINGS.
795	BS 3146/3 VHA 13 (C) PH 556.ANS 5383			STO.	UK				
AL 0.6-CR19.2.FE/BAL1.3.NI76.TI2.1				STO.	UR				
796	REX 400			STO.	UR				
AL 0.6-CR19.05.NI/BAL76.4.TI1.17				STO.	UR				
797	G1KKN001YU			STO.	UR				
AL 0.63-CR24.NI75.TI2.45				STO.	UK				
799	G1K2M00130			STO.	UR				
800	G1KKN001			STO.	UR				
801	G1K2M001YU			STO.	UR				
802	G1K2M001YU			STO.	UR				
803	GOST IE1602			STO.	UR				
804	G1KKN001YU			STO.	UR				
805	G1K2M001YU			STO.	UR				
806	G1K2M001YU			STO.	UR				
807	G1K2M001YU			STO.	UR				
808	GOST IE1602			STO.	UR				
809	G1KKN001			STO.	UR				
810	GOST IE1602			STO.	UR				
811	G1K2M001YU			STO.	UR				
812	G1K2M001YU			STO.	UR				
813	G1K2M001YU			STO.	UR				
814	G1K2M001YU			STO.	UR				
815	GOST IE1602			STO.	UR				
AL 0.67-CR19.7.NI/BAL77.4.TI2.23				STO.	UR				
816	G1KKN001YU			STO.	UR				
AL 0.7-B-CR18.5.N04.5.NI/BAL69.3.TI2.5.N4.5				STO.	UR				
817	GOST IE1602			STO.	UR				
AL 0.7-CR15.5.FE7.NB/CB6.95.NI73.TI2.5				STO.	US				
818	J-1500			STO.	US				
819	NIL-S-21977			STO.	US				
820	GOST IE1602			STO.	US				
821	GOST IE1602			STO.	US				
822	INGONEL ALLOY X-750			STO.	US				
823	CARPENTER PYRONET X-750			STO.	US				
824	NICKELVAC X-750			STO.	US				
825	NIL-N-7766			STO.	US				
826	NIL-N-8550			STO.	US				
827	NIL-N-24114 (SHIPS)			STO.	US				
828	NIL-N-24114 (SHIPS)			STO.	US				
829	NIL-N-24114 (SHIPS)			STO.	US				
830	NIL-N-24114 (SHIPS)			STO.	US				
831	NIL-N-24114 (SHIPS)			STO.	US				
832	NIL-N-24114 (SHIPS)			STO.	US				
833	NIL-N-24114 (SHIPS)			STO.	US				
834	NIL-N-24114 (SHIPS)			STO.	US				
835	NIL-N-24114 (SHIPS)			STO.	US				
836	NIL-N-24114 (SHIPS)			STO.	US				
837	NIL-N-24114 (SHIPS)			STO.	US				
838	NIL-N-24114 (SHIPS)			STO.	US				
839	NIL-N-24114 (SHIPS)			STO.	US				
840	NIL-N-24114 (SHIPS)			STO.	US				
841	NIL-N-24114 (SHIPS)			STO.	US				
842	NIL-N-24114 (SHIPS)			STO.	US				
843	NIL-N-24114 (SHIPS)			STO.	US				
844	NIL-N-24114 (SHIPS)			STO.	US				
845	NIL-N-24114 (SHIPS)			STO.	US				
846	NIL-N-24114 (SHIPS)			STO.	US				
847	NIL-N-24114 (SHIPS)			STO.	US				
848	NIL-N-24114 (SHIPS)			STO.	US				
849	NIL-N-24114 (SHIPS)			STO.	US				
850	NIL-N-24114 (SHIPS)			STO.	US				
851	NIL-N-24114 (SHIPS)			STO.	US				

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
AL0.7-CR15.5-FE7-NB/C80.95-Ti12.5	852 K80S R-15	ALLOY X-750	0.04	---	---	15.5	73	---	---	---	1.0	2.5	0.7	---	---
853 INCONEL X-750	853 INCONEL X-750	INCONEL X-750	0.04	---	---	15.5	73.0	---	---	---	1.0	2.5	0.7	---	7.0
854 ANS 5778	854 ANS 5778	INCONEL X-750	0.03 MAX.	1.0 MAX.	0.50 MAX.	14-17	70 MIN. 100	1.0 MAX.	---	---	0.7-1.2 +TA	2.25-2.75	0.4-1.0	---	5-9
855 ANS 5778	855 ANS 5778	INCONEL X-750	0.03 MAX.	1.0 MAX.	0.50 MAX.	14-17	70 MIN. 100	1.0 MAX.	---	---	0.7-1.2 +TA	2.25-2.75	0.4-1.0	---	5-9
856 ANS 5778	856 ANS 5778	INCONEL X-750	0.03	---	---	20	61	---	6.0	2.5	---	---	---	---	3.0
857 ANS 5778	857 ANS 5778	INCONEL X-750	0.06	---	---	15	BAL. (73)	---	---	---	1.0	2.5	0.7	---	6.0 MAX.
858 ANS 5778	858 ANS 5778	INCONEL X-750	0.04	0.55	0.20	15	75	6.5	---	---	---	2.4	0.70	---	7.0
859 UCAR ALLOY U-722	859 UCAR ALLOY U-722	UCINET 722	0.04	1.0 MAX.	---	15.5	BAL. (74.4)	---	---	---	---	2.36	0.7	---	7.0
860 UCAR ALLOY IN-722	860 UCAR ALLOY IN-722	INCONEL ALLOY 722	0.03	---	---	15.5	BAL. (75)	---	---	---	---	---	---	---	---
AL0.7-CR20.0-M0.4-NI/BAL72.0-Ti12.5	861 GOST HE1444	E1444	---	---	---	20	BAL. (72.8)	---	4.0	---	---	2.5	0.70	---	---
AL0.7-CR21.5-M0.9.7-NI/BAL64.7-Ti12.5	862 C-76	(CAST) G-76	0.06	0.4	0.4	21.5	BAL. (64.7)	---	9.7	---	---	2.5	0.7	---	---
AL0.75-CR16-FE3-NI/BAL70.6-Ti11.6	863 GOST HE1607AL	E1607AL	0.06	1.0	1.0	15-17	BAL. (70.6)	---	---	---	---	1.4-1.8	0.5-1.0	---	3.0
AL0.75-CR27-FE3-M01.5-NI/BAL64.2-Ti12-M1.5	864 G-157	---	0.06	1.25	0.40	27	BAL. (64.2)	---	1.5	---	---	2.0	0.75	---	6.0 MAX.
AL0.8-CR20.5-FE2-NI/BAL74.6-Ti12.05	865 GOST HE1437B	E1437B	0.07 MAX.	0.40 MAX.	0.6 MAX.	19-22	BAL. (74.6)	---	---	---	---	2.4-2.8	0.6-1.0	0.01 MAX.	4.0 MAX.
866 GINMNTT10UR	866 GINMNTT10UR	E1437B	0.07 MAX.	0.40 MAX.	0.6 MAX.	19-22	BAL. (74.6)	---	---	---	---	2.4-2.8	0.6-1.0	0.01 MAX.	4.0 MAX.
AL0.8-CR20.5-NI/BAL76-Ti12.7	867 GOST HE1437BU	E1437BU	0.07	0.40	0.65	19-22	BAL. (76)	---	---	---	---	2.5-2.9	0.6-1.0	0.01	---
AL0.8-C00.5-CR21.5-FE0.1-MC10-NB/C80.1-NI/BAL64.5-Ti12.6-M0.10	868 C-130	(CAST) G-130	0.10 MAX.	0.6 MAX.	0.60 MAX.	21.5	BAL. (64.5)	1.0 MAX.	10	0.20 MAX	0.25 MAX.	2.6	0.8	---	0.5 MAX.
AL0.8-CR14.2-FE7.2-NI73.4-Ti12.5	869 GIN2	INCONEL-X	0.04	0.54	0.34	14.16	73.38	---	---	---	---	2.48	0.78	---	7.19
AL0.85-C01-CR18-FE/BAL32.8-M05.25-NI39-Ti12.35-ZR0.05	870 NIMONIC ALLOY PE11	NIMONIC PE11	0.05	0.20 MAX.	0.50 MAX.	18	39	---	5.25	---	---	2.35	0.85	0.001 MAX	BAL. (32.8)
AL0.85-C09.75-CR21.5-FE0.25-NI/BAL65-Ti12.6	871 UCAR ALLOY G-130	---	0.05	---	0.30	21.5	BAL. (65)	9.75	---	---	---	2.60	0.85	---	0.25
AL0.85-CR21.5-FE0.5-M09.75-NI/BAL64.8-Ti12.6-CU0.5	872 BS 3143/3 WMA 3(CAST)	ANC124C 130	0.1 MAX.	0.6 MAX.	0.6 MAX.	21.5	BAL. (64.8)	---	9.75	---	---	2.6	0.85	---	0.5 MAX.
AL0.88-CR16.73-NI/BAL80.5-Ti11.05	873 GOST HE1873	E1873	0.06	0.91	0.32	16.73	BAL. (80.5)	---	---	---	---	1.05	0.88	---	---
AL0.9-C016-CR20-FE2-NI/BAL55.7-Ti11.6	874 NIMONIC 257	(CAST) NIMONIC 257	0.06	0.4	0.3	20	BAL. (55.7)	16	---	---	---	1.6	0.9	---	2.0 MAX.
875 NIMONIC 257	875 NIMONIC 257	(CAST) NIMONIC 257	0.06	0.30	0.4	20	BAL. (55.7)	16	---	---	---	1.6	0.9	---	2.0 MAX.
876 NIMONIC MC 57	876 NIMONIC MC 57	(CAST) NIMONIC MC 57	0.06	---	---	20	BAL. (61.5)	16	---	---	---	1.6	0.9	---	---
AL1.1-C04-CR14-FE/BAL34-M06-Ni12.5-Ti12.25	877 CARPENTER PYROMET 860	PROMET 860	0.10 MAX.	1.0 MAX.	1.0 MAX.	12-16	40-45	3.5-4.5	5-7	---	---	2.75-3.75	0.75-1.50	0.008-0.012	BAL. (34)
AL1.1-CR15-FE7-NB/C80.6-NI73-Ti12.5	878 INCONEL X-550	NOM INCONEL X-751	0.03	---	---	15	73	---	---	---	---	3.0-3.3	1.4-1.6	0.003-0.010	5.0 MAX.
AL1.1-CR19.5-NI/BAL78.2-Ti12.25	879 NIMONIC C	NIMONIC C	---	---	---	18-21	BAL. (78.2)	---	---	---	---	1.8-2.7	0.5-1.0	---	---
AL1.1-CR19-M07-NI/BAL57.5-Ti12.3	880 M-600	M-600	0.08	---	---	19	BAL. (57.5)	---	7.0	---	---	2.3	1.1	---	---
AL1.17-CR20-FE0.7-M05.1-NI/BAL70-Ti13	881 CIKHNTZNYU	---	0.03	---	---	20	BAL. (70)	---	5.1	---	---	3.0	1.17	---	0.70

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL07	CR15.FE7.NI/CB0.95.NI73.TI2.5								
952	RSAB5 NH.04	INCONEL ALLOY X-750		STO.	FR	MH.04	N07750	WROUGHT FORMS	GAS TURBINE SERVICE.
953	AFNOR NC 15FET(NB)	INCONEL ALLOY X-750		STO.	FR	MC 15 FET-NB	N07750	WROUGHT FORMS	GAS TURBINE SERVICE.
954	AMS 5667	INCONEL ALLOY X-750		STO.	US	AMS 5667	N07750	WROUGHT FORMS	TURBINE ROTORS AND BOLTS TO11100F/593C.
955	AMS 5778	INCONEL ALLOY X-750	CU0.50 MAX.	STO.	US	AMS 5788	N07750	WROUGHT FORMS	FILLER METAL FOR INERT-CAS-METAL ARC WELDING.
956	AECNA NI-C 103-NT (C)	INCONEL ALLOY X-750		STO.	FR	MC 20 NB	N07750	WROUGHT FORMS	GAS TURBINE COMPONENTS TO11590F/670C.
957	RTIC 6 722	INCONEL ALLOY X-750		STO.	GY		N07750	WROUGHT FORMS	JET ENGINE PARTS.
958	INCONEL ALLOY X-750	INCONEL ALLOY X-750		STO.	US	AMS 5941	N07750	WROUGHT FORMS	JET ENGINE PARTS.
959	INCONEL ALLOY X-750	INCONEL ALLOY X-750		STO.	UK		N07750	WROUGHT FORMS	JET ENGINE PARTS.
960	UCAR ALLOY IN-722	INCONEL ALLOY 722		STO.	UK		N07750	WROUGHT FORMS	JET ENGINE PARTS.
AL07	CR20.N04.NI/BAL72.8.TI2.5								
861	GOST E1444	E1444		STO.	UR			WROUGHT ALLOY	
AL07	CR21.5.M09.7.NI/BAL64.7.TI2.5								
862	C-76	(CAST) G-76		C-0147	UK			INVESTMENT CASTINGS	
AL07	CR16.FE3.NI/BAL78.6.TI1.6								
863	GOST E1607AL	E1607AL		STO.	UR			WROUGHT ALLOY	
AL07	CR27.FE3.M01.5.NI/BAL64.2.TI2.W1.5								
864	G-157			C-0066	US			WROUGHT FORMS	
AL08	CR20.5.FE2.NI/BAL74.6.TI2.05								
865	GOST E1437B	E1437B		STO.	UR	COST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES, DISCS (AIRCRAFT),
866	G1KH771YUR	E1437B		STO.	UR	COST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES, DISCS (AIRCRAFT).
AL08	CR20.5.NI/BAL76.TI2.7								
867	GOST E1437BU	E1437BU		STO.	UR			WROUGHT ALLOY	
AL08	CR21.5.FE0.1.NI019.NB/CB0.1.NI/BAL64.5.TI1								
868	C 130	(CAST)		C-0093	UK			CASTINGS	
AL08	CR14.2.FE7.2.NI73.4.TI2.5								
869	G1H2	+INCONEL-X	CU0.03	STO.	UR			WROUGHT ALLOY	
AL09	CR18.8.NI019.NB/CB0.1.NI/BAL64.5.TI1								
870	NIMONIC ALLOY PE11	NIMONIC PE11	ZR0.005 NAX.	C-0074	UK	OTO 5037		WROUGHT FORMS	GAS TURBINE THRUST REVERSERS, JET PIPES.
AL09	CR21.5.FE0.25.NI73.4.TI2.6								
871	UCAR ALLOY C-130			C-0161	UK			BA	
AL09	CR21.5.FE0.5.NI09.75.NI/BAL64.8.TI2.6.CU0.5								
872	BS 3143/3 VNA 3(CAST)	ANCI2-C 130	CU0.5 NAX.	C-0065	UK	NSRR 7045		INVESTMENT CASTING STK	JET ENGINE PARTS.
AL09	CR16.73.NI/BAL80.5.TI1.05								
873	GOST E1673	E1673		STO.	UR			WROUGHT ALLOY	
AL09	CR20.FE2.NI/BAL55.7.TI1.6								
874	NIMONIC 257 (CAST)	NIMONIC 257		C-0074	UK			RENET STOCK, CASTINGS	GAS TURBINE RINGS TO11202F/650C.
875	NIMONIC NC 57 (CAST)	NIMONIC NC57		C-0074	UK			CASTING ALLOY	JET ENGINE PARTS AND GAS TURBINE RINGS.
876	NIMONIC NC 57 (CAST)	NIMONIC NC 57		C-0074	UK			CASTING ALLOY	GAS TURBINE AND FURNACE PARTS.
AL10	CR14.FE/BAL34.NI06.NI42.5.TI2.25								
877	CARPENTER PYROMET 880	PYROMET 880		C-0042	US			BA+BI+SN+ST+FC+PL+M	JET ENGINE 1 GAS TURBINE PARTS, BLADES, DISCS.
AL11	CR15.FE7.NB/CB0.6.NI73.TI2.5								
878	INCONEL X-550	NOM INCONEL X-751		C-0067	US			WROUGHT FORMS	
AL11	CR19.5.NI/BAL78.2.TI2.25								
879	NIMONIC C	NIMONIC C		C-0074	UK			WROUGHT FORMS	GAS TURBINE PARTS, VALVES, VALVE INSERTS.
AL11	CR19.NI07.NI/BAL57.5.TI2.3								
880	N-600	N-600		C-0078	US				JET ENGINE AND GAS TURBINE PARTS.
AL11	CR20.FE0.7.NI05.1.NI/BAL70.TI3								
881	G1KNN721TYU			STO.	UR			WROUGHT ALLOY	

=====CHEMICAL COMPOSITION,WEIGHT PERCENT=====														
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	MICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	IRON
802	AL1.2-B-C60-1-CR18-5-MN4-5-MI/BAL68-7-Ti2-5-M4-5		0.08	0.60	0.60	17-20	BAL. 168.71	GROUP IV - NICKEL-BASE ALLOYS (Continued)	4-5	4-5	0.75	2.2-2.6	0.7-1.7	0.61
=====														
803	AL1.2-B-C60-1-CR18-5-FE1-MN0.15-NI/BAL58-Ti2-4-ZR0.63		0.06	0.35	0.40	19.5	BAL. 159	17	0.3 MAX.	-----	-----	2.4	1.2	0.082
=====														
804	AL1.2-B-C60-1-CR18-5-FE0.25-MB/C60-0.75-NI/BAL4-7-Ti2-3-ZR0.87		0.05	0.83	0.65	28.5	BAL. 147	20.0	0.806	-----	0.75	2.3	1.2	0.006
805	IN 587	IM 587	0.05	0.65	0.65	28.5	BAL. 147	20.0	0.806	-----	0.75	2.3	1.2	0.006
=====														
806	AL1.2-B-CR18-5-MN4-5-MI/BAL68-8-Ti2-5-M4-5		0.08	0.50	0.60	17-20	BAL. 168.81	-----	4-5	4-5	-----	2.2-2.6	0.7-1.7	0.01
807	GOST E1445R	E1445R	0.08	0.50	0.60	17-20	BAL. 168.81	-----	4-5	4-5	-----	2.2-2.6	0.7-1.7	0.01
808	G1KM1867V5T2YUR	E1445R	0.08	0.50	0.60	17-20	BAL. 168.81	-----	4-5	4-5	-----	2.2-2.6	0.7-1.7	0.01
809	G1KM2867M3T3YUR	E1445R	0.08	0.50	0.60	17-20	BAL. 168.81	-----	4-5	4-5	-----	2.2-2.6	0.7-1.7	0.01
810	G1KM2867M5V3YUR	E1445R	0.08	0.50	0.60	17-20	BAL. 168.81	-----	4-5	4-5	-----	2.2-2.6	0.7-1.7	0.01
=====														
811	AL1.2-C60-5-CR20-FE1-MI/BAL74-9-Ti2-4		0.15 MAX.	-----	-----	28	BAL. 174.91	1.0 MAX.	-----	-----	-----	2.4	1.2	2.0 MAX.
812	VRKUMELT AIS 241-G101	G-NICK 28 CO	0.15 MAX.	-----	-----	28	BAL. 174.91	1.0 MAX.	-----	-----	-----	2.4	1.2	2.0 MAX.
813	AIS 241-G	G-NICK 28 CO	0.15 MAX.	-----	-----	28	BAL. 174.91	1.0 MAX.	-----	-----	-----	2.4	1.2	2.0 MAX.
814	AL1.2-C616-CR20-FE5-NI/BAL54-6-Ti2-4		0.10	0.40	0.30	28	BAL. 154.61	16	-----	-----	-----	2.4	1.2	5.0 MAX.
=====														
815	AL1.2-C616-CR20-FE5-NI/BAL54-6-Ti3-05-ZR0.045		0.08-0.12	0.50 MAX.	0.60 MAX.	18.5-20.5	BAL. 154.61	15.5-18.0	-----	2.2-2.6	-----	2.2-2.6	1.0-1.4	0.004-0.008
816	VRKUMELT AIS 346-G101	G-NICK 28 CO	0.08-0.12	0.50 MAX.	0.60 MAX.	18.5-20.5	BAL. 154.61	15.5-18.0	-----	2.2-2.6	-----	2.2-2.6	1.0-1.4	0.004-0.008
817	AIS 346-G	G-NICK 28 CO	0.08-0.12	0.50 MAX.	0.60 MAX.	18.5-20.5	BAL. 154.61	15.5-18.0	-----	2.2-2.6	-----	2.2-2.6	1.0-1.4	0.004-0.008
=====														
818	AL1.2-C017-CR18-5-NI60-Ti2-2		0.12	-----	-----	18.5	60	17	-----	2.2	-----	2.2	1.2	-----
819	955 NIMOLLOY ALLOY PK37	NIMOLLOY PK37	0.18	-----	1.50 MAX.	18.5	60	17	-----	2.2	-----	2.2	1.2	-----
820	NIMOLLOY PK 37	-----	0.18	-----	1.50 MAX.	18.5	60	17	-----	2.2	-----	2.2	1.2	-----
=====														
821	AL1.2-C628-CR28-5-Ni42-5-Ti2-3		0.08	-----	-----	28.5	47.5	20	-----	-----	-----	2.3	1.2	-----
822	NIMONIC ALLOY 91	NIMONIC 91	0.08	-----	-----	28.5	47.5	20	-----	-----	-----	2.3	1.2	-----
=====														
823	AL1.2-CR15-5-FE7-MB/C60-0.95-Ni72-5-Ti2-3		0.10 MAX.	1.8 MAX.	0.50 MAX.	18-17	70 MIN + CO	-----	-----	0.7-1.2 fTA	2.0-2.6	0.9-1.5	1.2	5-9
824	999 INCONEL ALLOY 751	INCONEL ALLOY 751	0.04	0.7	0.3	15	BAL. 172.51	-----	-----	1.0	2.5	1.2	1.2	6-75
825	999 CARPENTER X-751	INCONEL ALLOY 751	0.04	0.7	0.3	15	BAL. 172.51	-----	-----	1.0	2.5	1.2	1.2	6-75
826	999 PHOTNET X-751	INCONEL ALLOY X-751	0.04	0.7	0.3	15	BAL. 172.51	-----	-----	1.0	2.5	1.2	1.2	6-75
827	901 ALLVAC X-751	INCONEL ALLOY X-751	0.10 MAX.	1.0 MAX.	0.58 MAX.	18-17	BAL. 175	1.0 MAX.	-----	0.7-1.2	2.2-2.75	0.9-1.5	1.2	5-9
=====														
828	AL1.2-CR16-5-FE34-M03-3-Ni43-5-Ti1-2		0.06	-----	-----	16.5	43.5	-----	3.3	-----	1.2	1.2	1.2	34
829	NIMONIC ALLOY PE16	NIMONIC PE16	0.06	-----	-----	16.5	43.5	-----	3.3	-----	1.2	1.2	1.2	34
=====														
830	AL1.2-CR16-FE8-M08-NB/C85-5-MI/BAL62-3-M4-5		0.08 MAX.	-----	-----	16	BAL. 162.31	-----	8.0	4.5	5.5	-----	1.2	8.0
831	GOST EP691	EP691	0.08 MAX.	-----	-----	16	BAL. 162.31	-----	8.0	4.5	5.5	-----	1.2	8.0
=====														
832	AL1.2-CR19-5-FE3-NI/BAL73-1-Ti2-2		0.05	0.5	0.35	19.5	BAL. 173.11	-----	-----	-----	-----	2.2	1.2	3.0
833	WITTEN OA 2080 TIL	OIM NICKR20TIAL	0.05	0.5	0.35	19.5	BAL. 174.11	-----	-----	-----	-----	2.2	1.2	3.0
834	905 OIN NICKR20TIAL	OIN NICKR20TIALTI	0.05	0.5	0.35	19.5	BAL. 174.11	-----	-----	-----	-----	2.2	1.2	3.0
=====														
835	AL1.25-B-C60-01-CR18-5-FE4-M01-0-MI/BAL59-3-Ti2-5-M4-5		0.08	-----	-----	17-20	BAL. 159.31	-----	9-11	-----	-----	2.2-2.8	1.8-1.5	0.01
836	GOST EP447	EP447	0.08	-----	-----	17-20	BAL. 159.31	-----	9-11	-----	-----	2.2-2.8	1.8-1.5	0.01
837	G1KM60VNTYU	EP447	0.08	-----	-----	17-20	BAL. 159.31	-----	9-11	-----	-----	2.2-2.8	1.8-1.5	0.01
=====														
838	AL1.25-B-C60-01-CR18-5-FE4-M04-5-MI/BAL65-8-Ti2-5-M4-5		0.08 MAX.	0.50 MAX.	0.6 MAX.	17-20	BAL. 165.81	-----	4-5	4-5	-----	2.2-2.6	1.8-1.5	0.01 MAX.
839	GOST EP202	EP202	0.08 MAX.	0.50 MAX.	0.6 MAX.	17-20	BAL. 165.81	-----	4-5	4-5	-----	2.2-2.6	1.8-1.5	0.01 MAX.
840	G1KM67VNTYU	EP202	0.08 MAX.	0.50 MAX.	0.6 MAX.	17-20	BAL. 165.81	-----	4-5	4-5	-----	2.2-2.6	1.8-1.5	0.01 MAX.
841	G1KM67VNTYU	EP202	0.08 MAX.	0.50 MAX.	0.6 MAX.	17-20	BAL. 165.81	-----	4-5	4-5	-----	2.2-2.6	1.8-1.5	0.01 MAX.
=====														
842	AL1.25-B-C60-01-CR18-5-N01-8-MI/BAL63-2-Ti2-5-M4-5		0.08	-----	-----	17-20	BAL. 163.21	-----	9-11	-----	-----	2.2-2.6	1.8-1.5	0.01
843	GOST EP447	EP447	0.08	-----	-----	17-20	BAL. 163.21	-----	9-11	-----	-----	2.2-2.6	1.8-1.5	0.01
844	G1KM60VNTYU	EP447	0.08	-----	-----	17-20	BAL. 163.21	-----	9-11	-----	-----	2.2-2.6	1.8-1.5	0.01
=====														
845	AL1.25-B-C60-01-CR18-5-N05-1-MI/BAL61-2-M5-1		0.08	0.50	0.40	17-19	BAL. 161.21	-----	4.6-5.6	-----	-----	2.3-2.9	1.0-1.5	0.005
846	GOST EP677	EP677	0.08	0.50	0.40	17-19	BAL. 161.21	-----	4.6-5.6	-----	-----	2.3-2.9	1.0-1.5	0.005
=====														
847	AL1.25-B-C60-01-CR18-5-N09-25-MI/BAL58-Ti2-5-M2		0.07 MAX.	0.50 MAX.	0.5 MAX.	17-19	BAL. 158	1	-----	-----	-----	2.2-2.6	1.8-1.5	0.005 MAX.
848	G1KM57VNTYU	EP590	0.07 MAX.	0.50 MAX.	0.5 MAX.	17-19	BAL. 158	1	-----	-----	-----	2.2-2.6	1.8-1.5	0.005 MAX.
849	G1KM57VNTYU	EP590	0.07 MAX.	0.50 MAX.	0.5 MAX.	17-19	BAL. 158	1	-----	-----	-----	2.2-2.6	1.8-1.5	0.005 MAX.
850	G1KM57VNTYU	EP590	0.07 MAX.	0.50 MAX.	0.5 MAX.	17-19	BAL. 158	1	-----	-----	-----	2.2-2.6	1.8-1.5	0.005 MAX.

[illegible]

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT															
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
AL1.25-0.015-0															

TABLE 2. (Continued)

LINE	ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	UNMS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL1.25-B-CR15.5,FE3.5,NI/8AL70.5,Ti1.7,Zr0.03	916 GOST IE1069	E1069	2R0.003	STO.	UR	GROUP IV - NICKEL-BASE ALLOYS (Continued)			ROTATING TURBINE BLADES (STATIONARY TURBINES).
AL1.25-B-CR15.5,FE22.5,NI/8AL47.4	917 RENE 62*	RENE 62		C-0070	US				
AL1.25-CR14.5,M02.1,NI/8AL79.0,Ti2.3	910 GOST IE1698	E1698		STO.	UR				
AL1.26-B-CR13.5,CR19.5,FE1.5,M04.25,NI/8AL56.1,Ti3.21	919 UCAR ALLOY 199		ZR0.005	C-0161	UK				
AL1.3-B-CR19.5,FE1.5,NI/8AL76.5,Ti2.4,ZR0.03	920 NIMOCAL 00 (CAST)	NIMOCAL 00	ZR0.06	C-0074	UK			CASTINGS	JET ENGINE PARTS.
AL1.3-CR19.5,FE2.5,NI/8AL73.5,Ti2.2	921 NIMONIC CC (CAST)	NIMONIC CC		C-0074	UK			CASTING ALLOY	JET ENGINE, GAS ENGINE AND GAS TURBINE PARTS.
AL1.3-CR19.5,FE2.5,NI/8AL53.5,Ti2.2	922 NIMONIC B (CAST)	NIMONIC B		C-0074	UK			WROUGHT FORMS	TURBINE GLIDE SPRINGS.
AL1.3-CR19.5,FE2.5,NI/8AL53.5,Ti2.2	923 NIMONIC C8 (CAST)	NIMONIC C8		C-0074	UK			CASTING ALLOY	GAS TURBINE ROTOR BLADES.
AL1.3-CR16.5,NI57.5	924 GOST HEPI51	EP151		STO.	UR				
AL1.3-CR19.5,NI76.5,Ti2.5	925 BS 3146/2 AND 9(CAST)	NIMOCAL 80 NIMONIC		STO.	UK	BS 3146 PT-2		INVESTMENT CASTINGS	GOOD RESIST. TO CREEP OXIDATION TO 1302F/756C.
926 BS 3146/2 AND 9(CAST)		NIMOCAL 80		STO.	UK	BS 3146 PT-2		INVESTMENT CASTINGS	DIESEL PRE-COMBUSTION CHAMBERS TO 1499F/815C.
927 NIMOCAL ALLOY 00 (C)		NIMOCAL 00		C-0074	UK	BS 3146			
AL1.35-B-CR02.02,CR17.5,FE5.5,M05.9,NI/8AL65.2,Ti	928 GOST IE1554	EP1554		STO.	UR				
929 GOST IE1554		EP1554		STO.	UR				
930 GOST IE1554		EP1554		STO.	UR				
AL1.35-B-CR02.02,CR17.5,FE5.5,M05.9,NI/8AL65.2,Ti	931 INCONEL ALLOY 601	INCONEL ALLOY 601		C-0067	US	AMS 5715		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
932 AMS 5715		INCONEL ALLOY 601		STO.	US	AMS 5715		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
933 AMS 5870		INCONEL ALLOY 601		STO.	US	AMS 5870		WROUGHT FORMS	
934 INCONEL ZA		INCONEL 601		C-0102	FR	ISO 90-5		WROUGHT FORMS	
935 ISO 5106A(T)		INCONEL ALLOY 601		STO.	XX				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	930 GOST IE1033	E1033		STO.	UR				
931 GOST IE1033		E1033		STO.	UR				
932 GOST IE1033		E1033		STO.	UR				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	933 INCONEL ALLOY 601	INCONEL ALLOY 601		C-0067	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
934 AMS 5715		INCONEL ALLOY 601		STO.	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
935 AMS 5870		INCONEL ALLOY 601		STO.	US	AMS 5870		WROUGHT FORMS	
936 INCONEL ZA		INCONEL 601		C-0102	FR	ISO 90-5		WROUGHT FORMS	
937 ISO 5106A(T)		INCONEL ALLOY 601		STO.	XX				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	938 GOST IE1033	E1033		STO.	UR				
939 GOST IE1033		E1033		STO.	UR				
940 GOST IE1033		E1033		STO.	UR				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	941 INCONEL ALLOY 601	INCONEL ALLOY 601		C-0067	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
942 AMS 5715		INCONEL ALLOY 601		STO.	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
943 AMS 5870		INCONEL ALLOY 601		STO.	US	AMS 5870		WROUGHT FORMS	
944 INCONEL ZA		INCONEL 601		C-0102	FR	ISO 90-5		WROUGHT FORMS	
945 ISO 5106A(T)		INCONEL ALLOY 601		STO.	XX				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	946 GOST IE1033	E1033		STO.	UR				
947 GOST IE1033		E1033		STO.	UR				
948 GOST IE1033		E1033		STO.	UR				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	949 INCONEL ALLOY 601	INCONEL ALLOY 601		C-0067	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
950 AMS 5715		INCONEL ALLOY 601		STO.	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
951 AMS 5870		INCONEL ALLOY 601		STO.	US	AMS 5870		WROUGHT FORMS	
952 INCONEL ZA		INCONEL 601		C-0102	FR	ISO 90-5		WROUGHT FORMS	
953 ISO 5106A(T)		INCONEL ALLOY 601		STO.	XX				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	954 GOST IE1033	E1033		STO.	UR				
955 GOST IE1033		E1033		STO.	UR				
956 GOST IE1033		E1033		STO.	UR				
AL1.4-B-CR02.25-CR16.5,FE1.5,M04.5,NI/8AL66.5,Ti1.4,M9.21	957 INCONEL ALLOY 601	INCONEL ALLOY 601		C-0067	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
958 AMS 5715		INCONEL ALLOY 601		STO.	US	AMS 5715		WROUGHT FORMS	STATIONARY TURBINE APPLICATIONS.
959 AMS 5870		INCONEL ALLOY 601		STO.	US	AMS 5870		WROUGHT FORMS	
960 INCONEL ZA		INCONEL 601		C-0102	FR	ISO 90-5		WROUGHT FORMS	
961 ISO 5106A(T)		INCONEL ALLOY 601		STO.	XX				

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT													TUNGSTEN		COLUMBIUM		TITANIUM		ALUMINUM		BORON		IRON	
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	GROUP IV - NICKEL-BASE ALLOYS (Continued)														
AL11.4.8, CO13.5, CR19.5, CO10.1, FE2.1, MO4.3, NI/8AL55, TI13, ZR0.09																								
961	AMS 5706+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
962	AMS 5707+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
963	AMS 5708+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
964	AMS 5709+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
965	AMS 5710+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
966	AMS 7471+AI51 685	WASPALOY-NIMON. PK 5	0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
967	AMS 7472+AI51 685	WASPALOY-NIMON. PK5, MASP.	0.03-0.10	0.1 MAX.	0.15 MAX.	18-21	BAL. (56.3)	12-15	3.5-5.0															
968	NIMONIC PK50	WASPALOY	0.03-0.10	0.1 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
969	AIR 9155-111	WASPALOY	0.03-0.10	0.1 MAX.	0.15 MAX.	18-21	BAL. (55)	12-15	3.5-5.0															
AL11.4.8, CO14, FE1.1, MO4, NI/8AL76.5, TI13, ZR0.05																								
970	WERKSTOFF 2.4654 LN		0.02-0.10	0.10 MAX.	0.15 MAX.	18-21	BAL. (76.5)	12-15	3.5-5.0															
AL11.4.8, CO19.7, CR24, 2, MO1.5, NB/CB1.5, NI/8AL50.6, TI3, ZR0.05																								
971	NIMONIC ALLOY 101	NIMONIC 101	0.10	-----	-----	24-2	BAL. (50.6)	19-7	1-5															
972	EPK 57	IN 597	0.05	0.05	0.05	24.3	BAL. (50.3)	19.7	0.012															
973	IN 557	FKP 57	0.05	0.05	0.05	24.3	BAL. (50.3)	19.7	0.012															
AL11.4.8, CO17.5, CR19.5, FE3, NI/8AL55, 3, TI2.3																								
974	WITTEN OA 2060 I	WITTEN OA 2060 I	0.05	0.5	0.35	19-5	BAL. (56.3)	17-5	-----															
975	WITTEN OA 2060 II	WITTEN OA 2060 II	0.05	0.5	0.35	19-5	BAL. (56.3)	17-5	-----															
976	WERKSTOFF 2.4632 LN	WITTEN OA 2060 II	0.13 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (56.3)	15-21	-----															
AL11.4.8, CO18, CR20, FE2.5, NI/8AL55, 7, TI2.4																								
977	WITTEN OA 2060 II	WITTEN OA 2060 II	0.07	-----	-----	20	BAL. (55.7)	18	-----															
978	WERKSTOFF 2.4969 OIN	WITTEN OA 2060 II	0.07	-----	-----	20	BAL. (55.7)	18	-----															
AL11.4.8, CR19.5, NI75, TI2.4																								
979	NC 207A	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (74.5)	-----	-----															
980	NIMONIC 80A	NIMONIC 80A	0.08	0.35	0.35	20-5	BAL. (74.5)	-----	-----															
981	CARPENTER PYROMET 80A	NIMONIC 80A	0.08	0.35	0.35	20-5	BAL. (74.5)	-----	-----															
982	WERKSTOFF 2.4631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (74.6)	2.0 MAX.	-----															
983	ASTM A 637, GRADE 80A	NIMONIC 80A	0.10 MAX	0.10 MAX	0.10 MAX	18-21	BAL. (74.6)	-----	-----															
984	KOSS VAC 45 (CAST)	NIMONIC 80A	0.07	0.6	0.6	19-22	BAL. (75)	-----	-----															
985	NIMONIC ALLOY 80A	NIMONIC 80A	0.06	-----	-----	19-5	BAL. (75)	-----	-----															
986	WITTEN OA 2060 II	NIMONIC 80A	0.04	0.6	-----	21	75	-----	-----															
987	ATG 53	NIMONIC 80A	0.04-0.10	1.0	1.0	18-21	BAL. (75)	2.0	-----															
988	ATG 54	NIMONIC 80A	0.04-0.10	1.0	1.0	18-21	BAL. (75)	2.0	-----															
989	AIR 9165-101	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0	-----															
990	VACUUMETHER 80	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0	-----															
991	ALLVAC 80A	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0	-----															
992	GOST E11445	NI44.5, NIMONIC 80A	-----	0.5	0.6	17-20	BAL. (75)	-----	-----															
993	G1KHNE7MTTU	NI44.5, NIMONIC 80A	-----	0.5	0.6	17-20	BAL. (75)	-----	-----															
994	GOST E11437A	NI437A, NIMONIC 80A	0.06	0.35	0.65	19-22	BAL. (75)	-----	-----															
995	G1KHNE200TJA	NI437A, NIMONIC 80A	0.06	0.35	0.65	19-22	BAL. (75)	-----	-----															
996	UCAR ALLOY 80A	NIMONIC 80A	0.065	0.06	0.6	19-5	BAL. (75)	2.0 MAX.	0.20															
997	SE 2MR HT-87	NIMONIC 80A	0.08	-----	-----	19-5	BAL. (75)	-----	-----															
998	SE 2MR HT-87	NIMONIC 80A	0.08	-----	-----	19-5	BAL. (75)	-----	-----															
999	85 HR 201	NIMONIC 80A	-----	-----	-----	19-5	BAL. (75)	-----	-----															
1000	85 HR 201	NIMONIC 80A	-----	-----	-----	19-5	BAL. (75)	-----	-----															
1001	85 HR 601	NIMONIC 80A	-----	-----	-----	19-5	BAL. (75)	-----	-----															
1002	TOPMET 801	NIMONIC 80A	-----	-----	-----	19-5	BAL. (75)	-----	-----															
1003	CO3ALLOY 4952	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1004	MARKER SL 8	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1005	80	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1006	EW 2-4952	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1007	TUBOTHERM 2075	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1008	TUBOTHERM 2075	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1009	TERMON 4952 VAKUMELT	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1010	VENTOS 4952 VAKUMELT	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1011	C8131	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1012	LASTE 4952	NIMONIC 80A	0.10 MAX.	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1013	EN2188(PRI) 2.4631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1014	EN2189(PRI) 2.4631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1015	EN2190(PRI) 2.4631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1016	EN2191(PRI) 2.4631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1017	ATG 35 2.4631 LN	NIMONIC 80A	0.06	1.0	1.0	18-21	BAL. (75)	2.0 MAX.	-----															
1018	AFOR NC 20 TA	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1019	AFOR NC 20 TA	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1020	WERKSTOFF 2.44631 LN	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															
1021	AECHA NI-P 95-HT	NIMONIC 80A	0.04-0.10	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)	2.0 MAX.	-----															

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY	CTRY CODE	PRIME COUNTRY	RELATES UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
962	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
963	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
964	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
965	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
966	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
967	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
968	ANS 5708-AISI 685	WASPALOY-NIMON. PK 5	CUD-1M-ZR0-02-0.06-SO-0.15	STD.	US	ANS 5708	N07001	BA+FG-RINGS, STRENGTH TO 1500F/816C.	CHARACTERISTICS AND TYPICAL APPLICATIONS
969	AIR 9165-111	WASPALOY	ZR0-02-0.06-SO-0.15, P-0.015	C-0074	FR	NI-P 111-NT	N07001	BA+FG-SN	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL1.4.4-C014.8-C014.8-FE1-M04-NI/BA176.5-T13-ZR0.05									
970	WERKSTOFF 2.4654 LN		CUD-1M-SO.008N-P0.015M	STD.	GY	2.4654 LN		BA+FG	JET ENGINE COMPONENTS.
AL1.4.4-C019.7-CR24.2-M01.5-MB/CB1-NI/BA150.6-T13-ZR1									
971	NIMONIC 101	NIMONIC 101	ZR0.05	C-0074	UK			BA+FG-RINGS, STRENGTH TO 1500F/816C.	MODIFIED NIMONIC 105, GAS TURBINE BLADES.
972	EPK 57	IN 597	ZR0.05	C-0074	UK			BA+FG-RINGS, STRENGTH TO 1500F/816C.	MODIFIED NIMONIC 105, GAS TURBINE BLADES.
973	IN 597	EPK 57	ZR0.05	C-0066	UK			BA+FG-RINGS, STRENGTH TO 1500F/816C.	MODIFIED NIMONIC 105, GAS TURBINE BLADES.
AL1.4.4-C017.5-CR19.5-FE3-NI/BA156.3-T12-Z1									
974	DIN NICKR20C01811	DIN NICKR20C01811		STD.	GY	2.4632 LN		WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
975	WITTEN DA 2060 TIL	DIN NICKR20C01811		C-0127	GY	2.4632 LN		WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
976	WERKSTOFF 2.4632 LN	DIN NICKR20C01811	ZR0.15	C-0127	GY	2.4632 LN		WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
AL1.4.4-C018.8-CR20.8-FE2.5-NI/BA155.7-T12-Z4									
977	WITTEN DA 2060 T	DIN NICKR20C01811		C-0127	GY	2.4632 LN		WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
978	WERKSTOFF 2.4632 LN	DIN NICKR20C01811		STD.	GY	2.4632 LN		WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
AL1.4.4-CR19.5-NI75-T12.4									
979	NC 20TA	NIMONIC 80A	P80-001-AG0.0005-B10.0-0001	STD.	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
980	WERKSTOFF 2.4631 LN	NIMONIC 80A	S0.007-CU0.05	C-0074	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
981	WERKSTOFF 2.4631 LN	NIMONIC 80A	S0.015 MAX.	C-0042	US	ASTM A 637	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
982	WERKSTOFF 2.4631 LN	NIMONIC 80A	S0.015 MAX.	STD.	US	ASTM A 637	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
983	ASTM A 637-GRADE 80A	NIMONIC 80A	S0.015 MAX.	STD.	US	ASTM A 637	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
984	ROSS VAC 45 (CAST)	NIMONIC 80A		C-0065	UK	MSR 70.11	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
985	NIMONIC ALLOY 80A	NIMONIC 80A		C-0074	UK	MSR 70.11	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
986	DIN NICKR20C01811 75-20	NIMONIC 80A		C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
987	ATG 23	NIMONIC 80A		C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
988	PER 23	NIMONIC 80A		C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
989	AIR 9165-101	NIMONIC 80A	P80-001-AG0.0001-AG0.0005	STD.	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
990	VACUOTHERM 80	NIMONIC 80A	CUD-20 MAX.	C-0153	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
991	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
992	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
993	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
994	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
995	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
996	GOST 1688	NIMONIC 80A		C-0008	US	BS 2881	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
997	KSAGS MH-07	NIMONIC 80A		C-0161	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
998	BS 2881	NIMONIC 80A		C-0161	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
999	BS 2881	NIMONIC 80A		C-0161	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1000	BS 2881	NIMONIC 80A		C-0161	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1001	BS 2881	NIMONIC 80A		C-0161	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1002	TOPHET 80A	NIMONIC 80A		C-0179	UK	BS NR 1.201	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1003	CORALLOY 4952	NIMONIC 80A	S0.3MAX-P0.045 MAX.	C-0179	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1004	MARKER SL 6	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1005	R00	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1006	EW 2-4952	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1007	TURBOTHERM 2075	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1008	TURBOTHERM 2075	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1009	TURBOTHERM 2075	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1010	VENTOS 4952 VAKUMELT	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1011	CEL 31	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1012	LASTE 4952	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1013	EN2191(PRI)+2.4631 LN	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1014	EN2191(PRI)+2.4631 LN	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1015	EN2191(PRI)+2.4631 LN	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1016	EN2191(PRI)+2.4631 LN	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1017	RTG 33	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1018	RTG 33	NIMONIC 80A	S0.615MAX-P0.030 MAX.	C-0184	GY	2.4952 DIN	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1019	AFNR NC 20 TA	NIMONIC 80A	P80-001-AG0.0005-B10.0-0001	C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1020	AFNR NC 20 TA	NIMONIC 80A	P80-001-AG0.0005-B10.0-0001	C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1021	WERKSTOFF 2.4631 LN	NIMONIC 80A	P80-001-AG0.0005-B10.0-0001	C-0102	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.
1021	MECHA NI-P 95-HT	NIMONIC 80A	PE AG0.0005-B10.0-0001	STD.	FR	NI-P 95-NT	N07000	BA+FG-SH	GAS TURBINE BLADES, RINGS, DISCS ETC.

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT														
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	NIOBIUM	TUNGSTEN	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)														
AL-1.4-CR20-FE1.5-NI/60.5-BAL/70.7-Ti2.4	1021 WERKSTOFF 2.4976 OIN	RG 4	0.06	---	---	20	BAL. (70.7)	---	---	---	2.4	1.4	---	2.0 MAX.
1022 WERKSTOFF 2.4976 OIN	RG 4	---	0.06	---	---	20	BAL. (70.7)	---	---	---	2.4	1.4	---	2.0 MAX.
1023 WERKSTOFF 2.4976 OIN	RG 4	---	---	---	---	---	---	---	4.0 YTA	---	---	---	---	---
AL-1.4-CR20-FE2.5-NI/60.5-BAL/73.7-Ti2.4														
1024 WITTEN OA 2080 TI	OIN NICK20TIAL	---	0.07	---	---	20.0	BAL. (73.7)	---	---	---	2.4	1.4	---	5.0 MAX.
1025 WERKSTOFF 2.4952 OIN	OIN NICK20TIAL	---	0.07	---	---	20	BAL. (73.7)	---	---	---	2.4	1.4	---	5.0 MAX.
1026 WERKSTOFF 2.4952 OIN	OIN NICK20TIAL	---	0.09	---	---	18-21	BAL. (76.2)	---	---	---	2.4	1.4	---	5.0 MAX.
1027 WERKSTOFF 2.4952 OIN	OIN NICK20TIAL	---	0.05-0.10	1.0 MAX.	---	---	BAL. (76.2)	2.0 MAX.	---	---	1.0-2.7	1.0-1.8	---	1.5 MAX.
AL-1.5-B-CO11-CR19-MO10-NI/60.5-BAL/5.3-Ti3.1														
1020 MARKER SL 15	RENE 41	*2.4973 OIN	0.10	0.50 MAX.	0.50 MAX.	19	BAL. (45.3)	11	10	---	3.0	1.5	---	5.0 MAX.
1021 CARPENTER CONSUMET 41	RENE 41	---	0.06-0.12	0.50 MAX.	0.50 MAX.	10-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.010	5.0 MAX.
1022 CARPENTER CONSUMET 41	RENE 41	---	0.09	---	---	19	BAL. (45.3)	11	10	---	3.1	1.5	0.01	5.0 MAX.
1023 WERKSTOFF 2.4973 OIN	RENE 41	*ANS 554.5	0.10	---	---	19	BAL. (45.3)	11	10	---	3.0 MAX.	1.5	---	5.0 MAX.
1024 WERKSTOFF 2.4973 OIN	RENE 41	*ANS 554.5	0.10	---	---	19	BAL. (45.3)	11	10	---	3.1	1.5	---	5.0 MAX.
1025 CARPENTER PROMET 41	RENE 41	---	0.06-0.12	0.50 MAX.	0.50 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.010	5.0 MAX.
1026 CARPENTER PROMET 41	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1027 ALLEHENY R 41	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1028 ALLEHENY R 41	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1029 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1030 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1031 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1032 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1033 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1034 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1035 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1036 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1037 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1038 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1039 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1040 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1041 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1042 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1043 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1044 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1045 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1046 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1047 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1048 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1049 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1050 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
1051 WERKSTOFF 2.4952 OIN	RENE 41	---	0.12 MAX.	0.10 MAX.	0.10 MAX.	18-20	BAL. (45.3)	10-12	---	---	3.0-3.3	1.4-1.6	0.003-0.01	5.0 MAX.
AL-1.5-B-CO11-CR20-MO10-NI/60.5-BAL/5.9-Ti3.2R														
1052 WERKSTOFF 2.4952 OIN	RG 4	---	0.06	---	---	20	BAL. (56.9)	14	4.5	---	3.0	1.5	---	---
AL-1.5-B-CO18-CR19.5-FE0.5-NI/60.5-Ti2.5														
1053 WERKSTOFF 2.4952 OIN	RG 4	---	0.13 MAX.	---	---	10-21	BAL. (50)	15-21	---	---	2-3	1-2	0.02 MAX.	1.0 MAX.
1054 WERKSTOFF 2.4952 OIN	RG 4	---	0.10	---	---	19.5	BAL. (77.5)	10	0.3 MAX.	---	2.75	1.5	0.000	---
AL-1.5-B-CO20-CR24.5-MO1.5-NI/60.5-Ti3.2R0.05														
1055 WERKSTOFF 2.4952 OIN	RG 4	---	0.05	---	---	24.5	46.4	20	1.5	---	3.0	1.5	0.012	---
AL-1.5-B-CO20-CR20-MO10-NI/60.5-Ti3.2R0.07														
1056 WERKSTOFF 2.4952 OIN	RG 4	---	0.05	---	---	20	74.6	---	---	---	2.5	1.5	0.007	---
AL-1.5-CO16.5-CR19.5-MI/60.5-Ti2.5														
1057 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	---
1058 WERKSTOFF 2.4952 OIN	RG 4	---	0.05	---	---	12.5	BAL. (59)	10	5.7	---	2.4	1.4	---	3.5 MAX.
1059 WERKSTOFF 2.4952 OIN	RG 4	---	0.07	---	---	20	BAL. (59)	10	---	---	2.4	1.4	---	5.0 MAX.
1060 WERKSTOFF 2.4952 OIN	RG 4	---	0.10	---	---	18-21	BAL. (59)	15-21	---	---	1.0-1.0	---	0.010 MAX.	3.0 MAX.
1061 WERKSTOFF 2.4952 OIN	RG 4	---	0.13 MAX.	---	---	18-21	BAL. (59)	15-21	---	---	1.0-1.0	---	0.020 MAX.	16.5
1062 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1063 WERKSTOFF 2.4952 OIN	RG 4	---	0.08	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1064 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1065 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1066 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1067 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1068 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1069 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1070 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1071 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1072 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1073 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1074 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1075 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1076 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1077 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1078 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1079 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1080 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1081 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1082 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1083 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1084 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1085 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1086 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1087 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1088 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1089 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1090 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1091 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1092 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1093 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1094 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1095 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1096 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1097 WERKSTOFF 2.4952 OIN	RG 4	---	0.00	---	---	19.5	BAL. (59)	16.5	---	---	2.5	1.5	---	16.5
1098 WERKSTOFF 2.4952 OIN	RG 4	---	0.00											

LINE	ALLOY NAME OR ALLOY DESIGNATION	CANON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDAR	RELATED UNS NUMBER	FARMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
AL-1-4-CR20-FE1-MO4-5-NI/BAL70-7-Ti2-4	1227	Werkstoff 2-4976 DIN	RGF 4	G-0160 STD.	GY	2-4976 DIN	---	WROUGHT FORMS	---
1283	Werkstoff 2-4976 DIN	---	---	---	GY	2-4976 DIN	---	WROUGHT FORMS	---

AL-1-4-CR20-FE2-5-NI/BAL73-7-Ti2-4	1224	---	---	G-0127 STD.	GY	2-4952 DIN	---	WROUGHT FORMS	PRECIPITATION HARDENING NICKEL-BASE ALLOY.
1225	Werkstoff 2-4952 DIN	1225	Werkstoff 2-4952 DIN	---	GY	2-4952 DIN	---	WROUGHT FORMS	PRECIPITATION HARDENING NICKEL-BASE ALLOY.
1226	Werkstoff 2-4631 LN	1226	Werkstoff 2-4631 LN	---	GY	2-4631 LN	---	WROUGHT FORMS	HIGH TEMPERATURE VALVE ALLOY.
1227	Werkstoff 2-4631 LN	1227	Werkstoff 2-4631 LN	---	GY	2-4631 LN	---	WROUGHT FORMS	GAS TURBINE TUBES, COMBUSTION CHAMBERS, BLADES.

AL-1-5-B-G011-CR19-MO10-NI/BAL45-3-Ti3-1	1229	MARKER SL 15	---	G-0189	GY	2-4973 DIN	N07041	WROUGHT FORMS	GAS TURBINE COMPONENTS AND NOT WORKING T80LS.
1229	MARKER SL 15	1229	MARKER SL 15	G-0189	GY	2-4973 DIN	N07041	WROUGHT FORMS	TURBINE BLADES.
1230	UCAR ALLOY R-41	1230	UCAR ALLOY R-41	G-0161	UK	---	N07041	BA	---
1231	Werkstoff 2-4973 DIN	1231	Werkstoff 2-4973 DIN	---	UK	2-4973 DIN	N07041	WROUGHT FORMS	---
1232	Werkstoff 2-4973 DIN	1232	Werkstoff 2-4973 DIN	---	UK	2-4973 DIN	N07041	WROUGHT FORMS	---
1233	Werkstoff 2-4973 DIN	1233	Werkstoff 2-4973 DIN	---	UK	2-4973 DIN	N07041	WROUGHT FORMS	---
1234	Werkstoff 2-4973 DIN	1234	Werkstoff 2-4973 DIN	---	UK	2-4973 DIN	N07041	WROUGHT FORMS	---
1235	CRUGBLE RENE 41	1235	CRUGBLE RENE 41	G-0034	US	AMS 5712	N07041	BA-BI	GAS TURBINE BUCKETS, WHEELS, FASTENERS.
1236	ALLOY NO. R-41	1236	ALLOY NO. R-41	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1237	WERNICK 63	1237	WERNICK 63	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1238	WERNICK 63	1238	WERNICK 63	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1239	WERNICK 63	1239	WERNICK 63	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1240	GARP-VALUETROL 41	1240	GARP-VALUETROL 41	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1241	EASTERN N6-41	1241	EASTERN N6-41	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1242	CN-R41	1242	CN-R41	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1243	UNITEMP R-41	1243	UNITEMP R-41	G-0066	US	AMS 5545	N07041	BI-B8-SN+PL	JET ENGINE PARTS AND AFTERBURNERS.
1244	AMS 5394-AISI 663 (C)	1244	AMS 5394-AISI 663 (C)	G-0066	US	AMS 5394	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1245	AMS 5545-AISI 663	1245	AMS 5545-AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1246	AMS 5545-AISI 663	1246	AMS 5545-AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1247	AMS 5545-AISI 663	1247	AMS 5545-AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1248	AMS 5545-AISI 663	1248	AMS 5545-AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1249	AISI 663	1249	AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1250	GE ALLOY 41-AISI 663	1250	GE ALLOY 41-AISI 663	G-0066	US	AMS 5545	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.
1251	AMS 5713-AISI 663	1251	AMS 5713-AISI 663	G-0066	US	AMS 5713	N07041	INVESTMENT CASTINGS	JET ENGINE PARTS, AFTERBURNERS, AIRFRAMES.

AL-1-5-B-G014-CR20-MO4-5-NI/BAL56-9-Ti3-2R	1052	G-05	---	G-0147	UK	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE COMPONENTS.
1052	G-05	1052	G-05	G-0147	UK	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE COMPONENTS.

AL-1-5-B-CR18-CR19-5-FE0-5-NI/BAL58-Ti2-5	1053	AIR 9165-161	---	STD.	FR	NI-P 96-NT	---	BA-FG-SN	JET ENGINE AND GAS TURBINE COMPONENTS.
1054	NINOMIC ALLOY 93	1054	NINOMIC ALLOY 93	G-0074	UK	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE COMPONENTS.

AL-1-5-B-G020-CR24-5-MG0-2-MO4-5-NI/CB1-Ni4-6-4-Ti3-2R	1055	IN-957	---	G-0067	US	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS.
1055	IN-957	1055	IN-957	G-0067	US	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS.

AL-1-5-B-CR26-MO10-NI7-6-Ti2-5-Y2031-3-ZR0-07	1056	IN-653	---	G-0067	US	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS.
1056	IN-653	1056	IN-653	G-0067	US	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS.

AL-1-5-C016-5-CR19-5-NI/BAL59-Ti2-5	1057	NINOMIC 90	---	G-0074	UK	BS 2HR2	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1057	NINOMIC 90	1057	NINOMIC 90	G-0074	UK	BS 2HR2	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1058	NICKELVAC 90	1058	NICKELVAC 90	G-0008	US	---	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1059	GARTNER PYROMET 90	1059	GARTNER PYROMET 90	G-0042	US	---	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1060	THERMAX 90	1060	THERMAX 90	G-0042	US	---	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1061	UDIMET 90	1061	UDIMET 90	G-0042	US	---	N07030	BA-SN-ST+N-FG-SI-MELO-IT	JET ENGINE AND GAS TURBINE PARTS. BLADES.
1062	WERNICK 2-4632 LN	1062	WERNICK 2-4632 LN	STD.	GY	2-4632 LN	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1063	AFOR NC 20V-TI	1063	AFOR NC 20V-TI	STD.	FR	NI-P-96-NT	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1064	AFOR NC 20V-TI	1064	AFOR NC 20V-TI	STD.	FR	NI-P-96-NT	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1065	ON-NICR 20 CO 10 TI	1065	ON-NICR 20 CO 10 TI	STD.	FR	2-4632 LN	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1066	RSAB NS-410	1066	RSAB NS-410	STD.	SW	MSK-18	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1067	RSAB NS-410	1067	RSAB NS-410	STD.	SW	MSK-18	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1068	ROSS VAC 29	1068	ROSS VAC 29	G-0065	UK	MSR 7043	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1069	NINOMIC ALLOY 90	1069	NINOMIC ALLOY 90	G-0074	UK	BS 2HR2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1070	ALC-SN 20 V-TI	1070	ALC-SN 20 V-TI	G-0102	FR	NC 20 KTA	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1071	WERNICK 2-4632 LN	1071	WERNICK 2-4632 LN	G-0102	FR	NC 20 KTA	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1072	WERNICK 2-4632 LN	1072	WERNICK 2-4632 LN	STD.	FR	NI-P 96-NT	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1073	AFOR NC 20V-TI	1073	AFOR NC 20V-TI	STD.	FR	2-4632 LN	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1074	DIN XENICOPT 195-20-2	1074	DIN XENICOPT 195-20-2	STD.	FR	2-4632 LN	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1075	UCCALLOY 90	1075	UCCALLOY 90	G-0008	UK	BS 2HR 2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1076	ALLOY 90	1076	ALLOY 90	G-0008	UK	BS 2HR 2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1077	BS 2HR 2	1077	BS 2HR 2	STD.	UK	BS 2HR 2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1078	BS 2HR 2	1078	BS 2HR 2	STD.	UK	BS 2HR 2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1079	BS 2HR 2	1079	BS 2HR 2	STD.	UK	BS 2HR 2	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.
1080	BS 2HR 503	1080	BS 2HR 503	STD.	UK	BS 2HR 503	N07030	BA-BI-SN-ST-FG-PL+M	JET ENGINE, GAS TURBINE PARTS, BLADES, DISCS.

TABLE 2. (Continued)

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
AL1-5-CO16-5-CR19-5-NI/8AL59-TI2-5									
1061	CORALLOY 4969	NIMONIC 90, 2.4632 LN	S0.3MAX., P0.045 MAX.	C-0179	GY	2.4969 OIM	N07090	WROUGHT FORMS	GAS TURBINE COMPONENTS AND AFTERBURNERS.
1062	MARKER SC 10	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	C-0184	GY	2.4969 OIM	N07090	WROUGHT FORMS	AFTERBURNERS AND GAS TURBINE COMPONENTS.
1063	MARKER SC 10	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	C-0189	GY	2.4969 OIM	N07090	WROUGHT FORMS	GAS TURBINE COMPONENTS AND AFTERBURNERS.
1064	TURBOTHERM 2095 CO	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	C-0185	GY	2.4969 OIM	N07090	WROUGHT FORMS	GAS TURBINE COMPONENTS AND AFTERBURNERS.
1065	VENTOS 4969 VAKUMELT	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	C-0186	GY	2.4969 OIM	N07090	WROUGHT FORMS	GAS TURBINE COMPONENTS AND AFTERBURNERS.
1066	LASTE 32	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	C-0188	GY	2.4969 OIM	N07090	WROUGHT FORMS	GAS TURBINE COMPONENTS AND AFTERBURNERS.
1067	LASTE 4969	NIMONIC 90, 2.4632 LN	S0.03MAX., P0.045 MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1068	EM2295(PRI)2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1069	EM2295(PRI)2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1070	EM2295(PRI)2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1071	EM2295(PRI)2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1072	EM2295(PRI)2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	EU	2.4969 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1073	RTG 12, 2.4632 LN	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	UK	BS 3146 PT.2	N07090	WROUGHT FORMS	WROUGHT FORMS
1074	AMC 10	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	UK	BS 3146 PT.2	N07090	WROUGHT FORMS	WROUGHT FORMS
1075	BS 1346/2 ANG10(CAST)	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	UK	BS 249 501	N07090	WROUGHT FORMS	WROUGHT FORMS
1076	BS 249 501	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	UK	BS 249 501	N07090	WROUGHT FORMS	WROUGHT FORMS
1097	BS 249 502	NIMONIC 90, NI-P 96-MT	S0.015MAX.	STO.	UK	BS 249 502	N07090	WROUGHT FORMS	WROUGHT FORMS
AL1-5-CO16-5-CR19-5-NI/8AL59-TI2-5									
1098	RTG 13, 2.4982 OIM			C-0160	GY	2.4982 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
1099	WERKSTOFF 2.4982 OIM			STO.	GY	2.4982 OIM	N07090	WROUGHT FORMS	WROUGHT FORMS
AL1-5-CO24-CR19, NI/8AL75.5-TI2									
1100	PER 2Y			C-0135	FR			WROUGHT FORMS	WROUGHT FORMS
AL1-56-8-CR17-2-MO3-61-NI/8AL75.2-TI1.5-M9									
1101	GOSTE1893L (CAST)	E1893L	CE0.02	STO.	UR			CAST ALLOY	CAST ALLOY
AL1-6-CR19-FE0.14-MO5.4-NI/8AL71.3-TI2.7									
1102	G1NZHL-14 (CAST)			STO.	UR			CAST ALLOY	CAST ALLOY
AL1-7-CR14.5-FE3-MO1.9-NI/8AL95.2-TI1.15-M5									
1103	GOSTE176SL (CAST)	E176SL		STO.	UR			CAST ALLOY	CAST ALLOY
AL1-8-CR14, FE7-NI/8AL71.0-SI2-TI1.49-M1.9									
1104	G1V56 (CAST)	BEARING ALLOY		STO.	UR			CAST ALLOY	CAST ALLOY
AL1-9-CR16-5-FE9.5-MO1.6-NI/8AL54.9-M8.4-ZR0.06									
1105	UNITEMP AF 1753		ZR0.06	C-0072	US			WROUGHT FORMS	HIGH-TEMPERATURE BOLTS AND FASTENERS.
AL1-9-8-CR16-MO3.7-NI/8AL70.6-TI1.95-V0.3-M5.5									
1107	GOSTE1610 (CAST)	E1610, ZHS3	V0.3	STO.	UR			WROUGHT ALLOY	ROTATING TURBINE BLADES-OISCS (NOT SPECIFIED).
1108	G1ZMS3 (CAST)	E1610, ZHS3	V0.3	STO.	UR			CAST ALLOY	NOZZLE GUIDE VANES.
AL1-9-CO19-CR22.4-MO/C81-NI48-TI1.4-TI3.7-M2									
1109	NIMOCAST 739 (CAST)	NIMOCAST 739	TA1.4	C-0074	UK			VACUUM MELTED BAR, CAST	DEVELOPED AS ALLOY IN-939, TURBINE BLADES-VANE.
AL1-9-CR19-5-FE1.2-MO3.25-NI/8AL60.9-M5-25									
1110	G1TSZHL6			STO.	UR				
AL1-9-CR30-NI66-TI1.8									
1111	NIMONIC ALLOY 81	NIMONIC 81		C-0074	UK			8A-R00-WASH, PL, ST, T, FG	GAS TURBINE COMPONENTS AND BLADES.
AL1-9-8-CR16.5-FE0.76-MO4.2-NI/8AL72.1-TI1.3-M5.2									
1112	GOSTE1675			STO.	UR			WROUGHT ALLOY	
AL1-9-8-CR15-FE3-MO4-NI/8AL74.3-TI1.2-M5									
1113	GOSTE1765 (CAST)	E1765	S0.012M-P0.015M, S0.012M-P0.015M,	STO.	UR			WROUGHT FORMS	ROTATING TURBINE BLADES-OISCS (NOT SPECIFIED).
1114	G1KHN70VNYUT	E1765		STO.	UR			WROUGHT FORMS	ROTATING TURBINE BLADES-OISCS (NOT SPECIFIED).
AL1-8-CO10-CR10-MF1-MO2-MO/C81-NI/8AL60.2-TI8-TI1.4-M5									
1115	TRM HASA II-0		TA8-MF1-ZR0.3	C-0075	US			WROUGHT FORMS	TURBINE BLADES.

TABLE 2. (Continued)

CHEMICAL COMPOSITION-WEIGHT PERCENT															
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	TITANIUM	ALUMINUM	BORON	IRON	
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
1110	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.50 MAX.	0.5 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.001-0.01	5.0 MAX.	
1111	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.50 MAX.	0.5 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.001-0.01	5.0 MAX.	
1112	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.12	0.50 MAX.	0.30-1.0	18-20	BAL. (56.2)	9-11	9-11	---	2.5	1.0	---	5.0 MAX.	
1113	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.12	0.50-1.50	0.30-1.0	18-20	BAL. (56.2)	9-11	9-11	---	2.25-2.75	0.50-1.25	---	5.0 MAX.	
1114	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.50 MAX.	0.50 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	---	5.0 MAX.	
1115	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10 MAX.	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1116	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1117	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1118	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1119	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1120	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9-11	---	2.25-3.00	0.75-1.30	0.003-0.010	5.0 MAX.	
1121	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1122	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.01 MAX.	5.0 MAX.	
1123	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.001-0.010	5.0 MAX.	
1124	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1125	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.01 MAX.	5.0 MAX.	
1126	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10-0.20	0.75 MAX.	0.75 MAX.	18-20	BAL. (56.2)	9-11	9.0-10.5	---	2.25-2.75	0.75-1.25	0.001-0.010	5.0 MAX.	
1127	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1128	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1129	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1130	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.50 MAX.	0.75 MAX.	19	BAL. (56.2)	10	9.0-10.5	---	2.5	1.0	---	2.0	
1131	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.08	0.4	0.4	20	BAL. (61.4)	8.0	6.0	---	1.7	1.0	---	1.0 MAX.	
1132	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.04	---	---	14.5	BAL. (64.2)	---	8.0	5.5	---	1.1	---	3.5-10.0	
1133	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.04	---	---	15.0	BAL. (63.7)	---	7.5	4.8	---	1.0	---	8.0	
1134	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.04	---	---	20.6	BAL. (76.9)	---	---	---	1.5	1.0	---	---	
1135	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10 MAX.	0.50 MAX.	0.60 MAX.	20-23	BAL. (62.5)	---	9.0-10.5	---	2.4-2.8	0.7-1.0	---	0.5 MAX.	
1136	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.05	---	---	19	BAL. (56.9)	12	6.0	1.0	---	2.0	0.005	---	
1137	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.05	---	---	19	BAL. (65)	4.8	2.5	3.5	---	2.3	---	---	
1138	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10 MAX.	0.50 MAX.	0.6 MAX.	19-22	BAL. (56.8)	---	4-6	9-11	1.1-1.6	2.1-2.6	0.008 MAX.	4.0 MAX.	
1139	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10 MAX.	0.50 MAX.	0.6 MAX.	19-22	BAL. (56.8)	---	4-6	9-11	1.1-1.6	2.1-2.6	0.008 MAX.	4.0 MAX.	
1140	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.10 MAX.	0.50 MAX.	0.6 MAX.	19-22	BAL. (56.8)	---	4-6	9-11	1.1-1.6	2.1-2.6	0.008 MAX.	4.0 MAX.	
1141	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.12 MAX.	0.50 MAX.	0.60 MAX.	13-16	BAL. (66.8)	---	2.5-4.5	5-7	1.7-2.2	2.4-2.9	0.015 MAX.	5.0 MAX.	
1142	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.12 MAX.	0.50 MAX.	0.60 MAX.	13-16	BAL. (66.8)	---	2.5-4.0	5-7	1.7-2.2	2.4-2.9	0.015 MAX.	5.0 MAX.	
1143	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.05-0.10	---	---	16.5-19.5	BAL. (54.3)	13.5-16.0	2.5-3.5	1-2	4.5-5.5	2-3	0.010-0.030	1.0 MAX.	
1144	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.07	---	---	18	BAL. (54.2)	15	3.0	1.5	5.0	2.5	---	1.0 MAX.	
1145	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.07	---	---	18	BAL. (54.2)	15	3.0	1.5	5.0	2.5	---	1.0 MAX.	
1146	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.07	---	---	18	BAL. (54.2)	15	3.2	1.5	5.0	2.5	0.02	0.5	
1147	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.07	---	---	18	BAL. (54.7)	15	3.0	1.5	5.0	2.5	0.02	0.5	
1148	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.035	---	---	18	BAL. (55.5)	14.7	3.0	1.25	5.0	2.5	0.033	---	
1149	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.15	0.2	0.3	15	BAL. (72.4)	---	4.0	2.0	2.5	2.5	BORON +	1.0 MAX.	
1150	AL1-CR14.5-8-CO10-CR19-MO10-MB/CB56-2-T12-6		0.12 MAX.	0.50 MAX.	0.6 MAX.	13-16	BAL. (66.7)	---	2.5-4.0	5-7	1.7-2.2	2.4-2.9	0.008 MAX.	5.0 MAX.	

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	COUNTRY STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)										
AL-1, C-010	CR19, MO10, MB/CB56, 2, TI12, 6									
1116	CARPENTER M-252	M-252, J-1500	200, 02-0, 15, S0, 015 MAX.	C-0052	US	AMS 5756		N07252	BI, BA, M	JET ENGINE, GAS TURBINE BUCKETS, WHEELS, BOLTS.
1117	UNITENP M-252	M-252, J-1500	200, 02-0, 15, S0, 015 MAX.	C-0072	US	AMS 5756		N07252	FG, BA, BI, FG, STOCK, M, SH	JET ENGINE, GAS TURBINE BUCKETS, WHEELS, BOLTS.
1118	ALLOY M-252	M-252, J-1500		C-0078	US	AMS 5551		N07252	BI, BA, M, SH, ST, PL, T, M	JET ENGINE, GAS TURBINE BUCKETS, HEAT CORROSION RESISTANT.
1119	ALLOY M-252, AI51	M-252, J-1500		C-0078	US	AMS 5551		N07252	BI, BA, M, SH, ST, PL, T, M	GAS TURBINE BLADES, PARTS, SHEETS.
1120	CE 311, 01, 15, 60			C-0078	US	AMS 5551		N07252	BI, BA, M, SH, ST, PL, T, M	GAS TURBINE BLADES, PARTS, SHEETS.
1121	AI51 609			STD.	US	ASTM 609		N07252	BI, BA, M, SH, ST, PL, T, M	GAS TURBINE BLADES, PARTS, SHEETS.
1122	AMS 5551, AI51 609			STD.	US	AMS 5551		N07252	SM, ST	PARTS REQUIRING HIGH STRENGTH T01100F/902C.
1123	AMS 5756, AI51 609			STD.	US	AMS 5756		N07252	BA, FG, RINGS, FG, STOCK	TURBINE SHAFTS, BUCKETS, BOLTS, DOMELS.
1124	AMS 5757, AI51 609			STD.	US	AMS 5757		N07252	BA, FG, RINGS, FG, STOCK	GAS TURBINE APPLICATIONS.
1125	ASTM A 637, GRADE 609			STD.	US	ASTM A 637		N07252	BA, FG, RINGS, FG, STOCK	GAS TURBINE APPLICATIONS.
1126	CRUCIBLE M-252			C-0034	US	AMS 5551		N07252	BA, FG, RINGS, FG, STOCK	JET ENGINE AND GAS TURBINE COMPONENTS.
1127	ALLVAC M-252, 252			C-0060	US	AMS 5551		N07252	BA, FG, RINGS, FG, STOCK	GAS TURBINE APPLICATIONS, BLADES, FASTENERS.
1128	ALLOY M-252, 252			C-0066	US	AMS 5551		N07252	BI, BA, M, SH, ST, PL, T, M	TURBINE BUCKET APPLICATIONS.
1129	ALTERP M-252			C-0066	US	AMS 5551		N07252	BI, BA, M, SH, ST, PL, T, M	TURBINE BUCKET APPLICATIONS.
AL-1, C020, CR20, FE5, NI, BAL, TI2										
1130	PER 2U			C-0135	FR				WROUGHT FORMS	
AL-1, C008, CR20, FE1, MO6, NI, BAL60, 4, TI1, 7										
1131	C-44	(CAST)		C-0147	UK				INVESTMENT CASTINGS	
AL-1, CR14, 5, FE6, 75, MO6, NI, BAL64, 2, W4, 5										
1132	G1KH6DM8VU			STD.	UR				WROUGHT ALLOY	
AL-1, CR15, FE6, W07, 5, NI, BAL63, 7, W4, 0										
1133	G1KH5DM8VU			STD.	UR				WROUGHT ALLOY	
AL-1, CR20, 6, NI, BAL76, 9, TI1, 5										
1134	G120-758TYU			STD.	UR				WROUGHT ALLOY	
AL-1, CR21, FE0, 25, W010, NI, BAL60, 5, TI2, 5										
1135	BS 314, 34PT, 3			STD.	UK	BS 314, 34PT, 3			INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL-2, 13, C012, CR19, MO6, NI, BAL56, 9, TI3, 41										
1136	UCAR ALLOY U-520			C-0161	UK				BI, IN-GOT	
AL-2, 3, C04, 8, CR19, MO2, 5, NI, BAL65, TI2, 9, W3, 5										
1137	G1MS			STD.	UR				CAST ALLOY	
AL-2, 35, 8, CR20, 25, FE4, MO5, NI, BAL56, 0, TI1, 35, W10										
1138	GOST EP199			STD.	UR	GOST 5632-72			WROUGHT FORMS	
1139	G1KH55VHTYU			STD.	UR	GOST 5632-72			WROUGHT FORMS	
1140	G1VZM101			STD.	UR	GOST 5632-72			WROUGHT FORMS	
AL-2, 45, C06, 02, CR14, 5, FE5, MO3, 25, NI, BAL66, 0, TI1, 95, W6										
1141	GOST EI160718			STD.	UR	V0, 1-0, 5, CE0, 0, 02			WROUGHT ALLOY	
1142	GOST EI1826			STD.	UR	CF0, 0, 07, S0, 069M, PH, 015N,			WROUGHT ALLOY	
AL-2, 5, 8, C015, CR10, MO3, NI, BAL54, 2, TI5, W1, 5										
1143	AIR 3165-181			STD.	FR	S0, 015MAX, P0, 015MAX.			BA, FG	TURBINE DISCS.
1144	UOIMET 710			STD.	FR	NCK 10 TDA			WROUGHT FORMS	S

TABLE 2. (Continued)

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TABLE 2. (Continued)

TABLE 2 SUPERALLOY MASTER LIST									
SUPERALLOYS									
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	UNSC NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL2-65-8-CE0-02-CR14.5-FE5-N03.25-NI/BAL66.7-TI11.95-1151 G1KH70VNTYU	E1026		CE0-02N-S0-009N-P0-015N	STO.	UR	COST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
AL2-7-C017-5-CR18-N04-NI54-TI2.9									
1152 NINOMIC ALLOY PK25				C-0074	UK			BA+R00+FG	A PRECIPITATION HARDENING CREEP-RESIST. ALLOY.
AL2-75-8-CR16.5-FE7-N03.3-NI/BAL66.9-TI11.4-NI2.2									
1153 G1VZHL-1 (CAST)				STO.	UR			CAST ALLOY	
AL2-75-CR15-N05-NI/BAL75-TI2.25									
1154 C-95				C-0147	UK			WROUGHT FORMS	
AL2-76-8-CE0-015-CR17-N03.3-NI/BAL70.7-TI2.76-W5.77									
1155 G0STIEP539			CE0-01-0-02	STO.	UR			WROUGHT ALLOY	
AL2-8-8-C020-CR15.5-NB/CB2-NI/BAL50-T42-TI4.3-N3.2R0.									
1156 NAR-N ALLOY 4.32(CAST)				C-0069	US			INVESTMENT CASTINGS	INTEGRALLY CAST TURBINE WHEELS.
1157 ROSS VAC 42 (CAST)			T 42-0-2-2-ZR0-03-0.07	C-0065	UX			INVESTMENT CASTING STK	JET ENGINE PARTS.
AL2-9-8-C018-CR19-FE4-N04-NI/BAL47.2-TI2.9									
1158 AFNOR NC20X0TA				STO.	FR			SN-BA+FC	
1159 UOINET 500-AISI 884				C-0066	US	AMS 5751	N07500	BA+SH+T+M+ELO R00	GAS TURBINE PARTS, SHEETS, BOLTS.
1160 ALLVAC 500 28				C-0068	US	AMS 5751	N07500	BA+SH+T+M+ELO R00	GAS TURBINE PARTS, SHEETS, BOLTS.
1161 HASTELLOY ALLOY 500				STO.	US	AMS 5751	N07500	INVESTMENT CASTINGS	TURBINE BLADES, HIGH STRENGTH T011700F/927C.
1162 ANS 5384			SB-015 NAX	STO.	US	AMS 5384	N07500	BA+FC+KING+FC STOCK	TURBINE COMPONENTS, HIGH STRENGTH T011600F/871.
1163 ANS 5751-AISI 684			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1164 ANS 5751-AISI 684			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1165 AISI 684			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1166 ASTM A 461			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1167 AISI 684			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1168 BS 3166/3 VNA 9(CAST)			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1169 ATC M2			CU-015 NAX	STO.	US	AMS 5751	N07500	BA+FC+KING+FC STOCK	RELAYS, BOLTS, FITTINGS T011600F/871C.
1170 AFNOR NC 20 KOTA				C-0102	FR	BS 3166/3	N07500	WROUGHT FORMS	JET ENGINE PARTS.
1171 WERSTOFF 2-4983 OIN				C-0102	FR	NC 20 KOTA	N07500	WROUGHT FORMS	GAS TURBINE PARTS, SHEETS, AND FASTENERS.
1172 ACHA NI-P 94-HT				STO.	FR	NC 20 KOTA	N07500	WROUGHT FORMS	GAS TURBINE PARTS, SHEETS, AND FASTENERS.
1173 AIR 9465-141				STO.	FR	NC 20 KOTA	N07500	WROUGHT FORMS	GAS TURBINE PARTS, SHEETS, AND FASTENERS.
1174 J-1600				STO.	FR	NC 20 KOTA	N07500	WROUGHT FORMS	GAS TURBINE PARTS, SHEETS, AND FASTENERS.
1175 J-1600				STO.	FR	NC 20 KOTA	N07500	WROUGHT FORMS	GAS TURBINE PARTS, SHEETS, AND FASTENERS.
1176 ATS 361-G (CAST)				C-0008	US	AMS 5384	N07500	WROUGHT FORMS	JET ENGINES 1 TURBINES.
1177 RIG 14, 2-4983 OIN				C-0151	CY		N07500	INVESTMENT CASTINGS	GAS-TURBINE BLADES.
1178 UCAR ALLOY U-500				C-0151	CY		N07500	INVESTMENT CASTINGS	GAS-TURBINE BLADES.
1179				C-0161	UX	2-4983 OIN	N05000	WROUGHT FORMS	
AL2-8-CE0-02-CR14.5-FE5-N03-NI/BAL65.1-TI2.85-V0.3-ME									
1180 G0STIEP539				STO.	UR	GOST 5632-72		WROUGHT ALLOY	
1181 G1KH70VNTYU			CE0-02N-S0-014N-P0-015N	STO.	UR	GOST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
1182 G1KH70VNTYU			CE0-02N-S0-014N-P0-015N	STO.	UR	GOST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
1183 G1KH15N70V643TYUR			CE0-02N-S0-014N-P0-015N	STO.	UR	GOST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT, STATIONARY).
AL2-8-C018-CR18-NI/BAL63.9-TI3									
1184 C-83				C-0147	UX			WROUGHT FORMS	
AL2-8-C012-CR19-N05-NI/BAL56.9-TI3-M1									
1185 ALLVAC 520				C-0008	US			BA+FG	STATIONARY LANO GAS TURBINE BLADES.
1186 UOINET 520				C-0066	US			BA+SH	PROPERTIES EQUAL TO UOINET 500.
AL2-8-C014-CR18.5-FE0.25-N07-NI/BAL55.9-TI2									
1187 NINOMIC ALLOY PK33				C-0074	UX	OTO 5057		SN	GAS TURBINE ROTOR AND SWEET COMPONENTS.
1188 OTO 5057				STO.	UX	OTO 5057		WROUGHT FORMS	
1189 AFNOR NC 19 X0U/V			ZR0-02 NAX	STO.	FR	MC 19 KOU/V		WROUGHT FORMS	
AL2-8-C015-CR21-NB/CB1-NI/BAL59.5-TI0.5-M1									
1190 K2					US				
AL2-8-CR38.5-N04.5-NI54-TI0.1									
1191 HN-30				C-0008	US			WROUGHT FORMS	TURBINE AND COMPRESSOR BLADES.
AL2-8-CR19.5-FE5-NI/BAL50-TI4									
1192 NINOMIC ALLOY 95				C-0074	UX			WROUGHT FORMS	GAS TURBINE ROTOR BLADES.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
CHEMICAL COMPOSITION-WEIGHT PERCENT															
GROUP IV - NICKEL-BASE ALLOY (Continued)															
AL2-CO2-5-CR15-5-FE10-MO5-5-NI/BAL61-8-TI2-5	1193	MASTELLOY R-235	0.16 MAX.	0.25 MAX.	0.60 MAX.	14-17	BAL. (47.3)	2.5 MAX.	4.5-6.5			2.85-2.75	1.75-2.25		9-11
AL2-CR16-NI/BAL78-9-TI3	1194	6.02	0.10			16	BAL. (78.9)					3.0	2.0		
AL3-05-CO14-CR10-5-FE5-MO5-NI/BAL55-2-TI11-7-M5-5	1195	UNITEMP C-300	0.12	0.50	0.50	9-12	BAL. (55.2)	12-16	4-6	4.5-6.5		1.4-2.0	3.6-4.5	0.01	5.0
1196	61KH55MVFYUR	E1929	0.12	0.50		9-12	BAL. (55.2)	14	5.0	6.0		1.7	4.0		
AL3.1-BA0.1-CE0.03-CR16-5-FE/BAL23-6-NI56-5	1197	GOSTE1599A	0.10 MAX.	0.30 MAX.	0.8 MAX.	15-18	55-56						2.6-3.5	BA0.01 MAX.	BAL. (23.6)
1198	61KH60VU	E1998A	0.10 MAX.	0.30 MAX.	0.8 MAX.	15-18	55-56						2.6-3.5	BA0.01 MAX.	BAL. (23.6)
AL3.1-CR22-4-FE9-7-NI/BAL58-TI11-1-M5-7	1199	GOSTE1694	0.08	0.75	1.02	22-4	BAL. (58)			5.7		1.1	3.1		9.7
AL3.15-BA0.1-CE0.03-CR27-5-FE0.5-NI/BAL68-5	1200	GOSTE1652	0.10 MAX.	0.30 MAX.	0.80 MAX.	26-29	BAL. (68.9)						2.6-3.5		1.0 MAX.
1201	61KH27N7YU3	E1652	0.10	0.30	0.80	26-29	BAL. (68.9)						2.6-3.5		1.1
AL3.15-BA0.1-CE0.03-CR27-5-FE1-NI/BAL68-1-M0-1	1202	GOSTE1652	0.10 MAX.	0.30 MAX.	0.8 MAX.	26-29	BAL. (68.1)						2.6-3.5	BA 0.1 MAX.	1.0 MAX.
1203	GOSTE1652	E1652	0.10 MAX.	0.30 MAX.	0.8 MAX.	26-29	BAL. (68.1)						2.6-3.5	BA 0.1 MAX.	1.0 MAX.
AL3.15-CE0.03-CR27-5-FE1-NI/BAL66-3	1204	61KH27N7YU3	0.10	0.30	0.80	26.5-28.5	BAL. (66.3)						2.6-3.5		1.0
AL3.2-BA0.09-CR12-7-MO2-NI/BAL60-8-TI3-9-TI4-2-M3-9-ZR0.1	1205	UCAR ALLOY IM-792 (C)	0.21			12.7	BAL. (60.8)	9.0	2.0	3.9		4.2	3.2	0.02	
1206	IM-792	IM-792	0.21			12.7	BAL. (60.8)	9.0	2.0	3.9		4.2	3.2	0.02	
AL3.25-8-CR15-5-FE25-MO5-NI/BAL49-1-TI12-2	1207	GMR-236	0.15			15.5	BAL. (49.1)		5.0			2.2	3.25	0.06	25
AL3.25-CR15-5-FE1-MI79-5-TI0-63	1208	INCOEL ALLOY 702	0.04	0.50	0.35	15.6	BAL. (79.5)					0.63	3.25		1.0
1209	AMS 5550	INCOEL ALLOY 702	0.04	0.05	0.2	14-17	BAL. (79.5)					0.25-1.0	2.7-3.7		0.35
1210	AMS 5550	INCOEL ALLOY 702	0.10 MAX.	1.0 MAX.	0.70 MAX.	14-17	BAL. (79.5)	1.0 MAX.				0.25-1.0	2.75-3.75		2.0 MAX.
AL3.3-CE0.3-CR16-2-FE19-MI/BAL61-2	1211	GOSTE1559	0.05	0.45	0.13	16-20	BAL. (61.2)						3.3		19
1212	61KH16N6YU3	E1599A	0.10	0.30	0.60	15-18	55-60						2.3-3.6		BAL. (19)
AL3.3-CR15-5-FE5-8-NI73-9-TI11-46	1213	61KH15H7YU3				15.5	73.9					1.46	3.3		5.0
AL3.4-BA0.08-CR16-5-FE0.5-MO1-75-MB/CB0-9-NI/BAL60-4-TI1-7-TI3-4	1214	IM-738	0.15-0.20	0.20 MAX.	0.30 MAX.	15.7-16.3	BAL. (60.4)	8-9	1.5-2.0	2.4-2.8	0.6-1.1	3.2-3.7	6.5-7.2	0.005-0.015	0.50 MAX.
1215	BS 3146/3 VMA 16A (C)	IM-738	0.17	0.2 MAX.	0.3 MAX.	16	BAL. (60.4)	8.5	1.5	2.6	0.9	3.4	3.4	0.01	0.5 MAX.
1216	BS 3146/3 VMA 16B (C)	IM-738	0.11	0.2 MAX.	0.3 MAX.	16	BAL. (60.4)	8.5	1.75	2.6	0.9	3.4	3.4	0.01	0.5 MAX.
1217	UCAR ALLOY IM-738 (C)	IM-738	0.17	0.20 MAX.	0.30 MAX.	16	BAL. (60.4)	8.5	1.75	2.6	0.9	3.4	3.4	0.01	0.5 MAX.
AL3.4-8-CO0-08-7-NI/BAL60-6-MO2-MI-6-ZR0.1	1218	UNITEMP C-300	0.12			8.7	BAL. (60.6)	9.0	2.0	7.6		0.7	3.4	0.02	9.5
AL3.4-CO8-5-CR16-MO1-8-MI61-TI1-6-TI3-4-M2-5	1219	NIMOCAST 738 (CAST)	0.10			16	61	8.5	1.0	2.5		3.4	3.4		
1220	NIMOCAST 738C (CAST)	NIMOCAST 738C	0.11			16	61	8.5	1.0	2.5		3.4	3.4		
AL3.5-8-CE0-01-CR19-FE1-5-NI/BAL73-7-TI2-3	1221	G1V2M36L				19	BAL. (73.7)					2.3	3.5	0.3	1.5
AL3.5-8-CO8-5-CR12-MO1-75-MI/BAL66-2-TI4-TI4-ZR0.02	1222	UCAR ALLOY B1925 (C)				12	BAL. (66.2)	8.5	3.0	4.5		4.0	3.5	0.10	

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
AL2,CON. 5,CR15.5,FE10,N05.5,NI/BAL61.0,TT2.5	1193 MASTELLOY R-235	MASTELLOY R-235	S0.03MAX,P0.01MAX.	C-0068	US	---	---	SN,PL,BA,M	GAS TURBINE AND JET ENGINE PARTS, SHEETS.
AL2,CR16,NI/BAL78.9,TT3	1194 C-82	C-82	---	C-0147	UK	---	---	WROUGHT FORMS	---
AL3.05,CO14,CR10.5,FE5,N05,NI/BAL55.2,TT1.7,W5.5	1195 G1V2H 36-300	E1929,KH55VNTFYUR	---	STO.	UR	---	---	WROUGHT ALLOY	ROTATING TURBINE BLADES (AIRCRAFT).
1196 C1KH55VNTFYUR	E1929	E1929	V0.5	STO.	UR	---	---	WROUGHT ALLOY	ROTATING TURBINE BLADES (AIRCRAFT).
AL3.1,BA0.1,CE0.03,CR16.5,FE/BAL23.8,NI56.5	1197 C1KH60TYU	E1599A	CE0.03N,S0.02,P0.02N.	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	COMBUSTION CANS,TAILPIPER,AFTERBURNER LINERS.
1198 C1KH60TYU	E1599A	E1599A	CE0.03N,S0.02,P0.02N.	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	COMBUSTION CANS,TAILPIPER,AFTERBURNER LINERS.
AL3.1,CR22.4,FE9.7,NI/BAL58,TT1.1,W5.7	1199 GOSTIEI094	E1094	---	STO.	UR	---	---	WROUGHT ALLOY	UNKNOWN
AL3.15,BA0.1,CE0.03,CR27.5,FE0.5,NI/BAL66.9	1200 C1KH60TYU	E1692	BA0.1,CE0.03	STO.	UR	---	---	WROUGHT ALLOY	---
1201 C1KH60TYU	E1692	E1692	BA0.1,CE0.03	STO.	UR	---	---	WROUGHT ALLOY	---
AL3.15,BA0.1,CE0.03,CR27.5,FE1.1,NI/BAL66.1,W0.1	1202 G1KH70TYU	E1692	CE0.03N,S0.12N,P0.15	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	COMBUSTION CANS,TAILPIPER,AFTERBURNER LINERS.
1203 GOSTIEI692	E1692	E1692	CE0.03N,S0.12N,P0.15	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	COMBUSTION CANS,TAILPIPER,AFTERBURNER LINERS.
AL3.15,CE0.03,CR27.5,FE1.1,NI/BAL66.3	1204 G1KH70TYU	---	CE0.03	STO.	UR	---	---	WROUGHT ALLOY	---
AL3.2,BA0.09,CR12.7,N02,NI/BAL60.8,TA3.9,TT4.2,M3.9,ZF	1205 UCAR ALLOY IN-792 (C)	IN-792	ZR0.10	C-0161	UK	---	---	BA-CASTINGS	---
1206 IN-792	IN-792	IN-792	TA3.9	C-0067	US	---	---	INVESTMENT CASTINGS	6000 HOT CORROSION RESISTANCE.
AL3.25,BA0.09,CR15.5,FE25,N05,NI/BAL49.1,TT2.2	1207 GNR-236	GNR-236	---	C-0108	US	---	---	INVESTMENT CASTINGS	HEAT RESISTANT PARTS.
AL3.25,CR15.5,FE1.1,NI79.5,TT0.83	1208 INCONEL 702	INCONEL ALLOY 702	---	C-0067	US	ANS 5550	---	SH	AFTERBURNER LININGS.
1209 EASTERN MD. 702	INCONEL ALLOY 702	INCONEL ALLOY 702	---	C-0107	US	ANS 5550	---	SH,ST,PL	JET ENGINE COMPONENTS AND AFTERBURNERS.
1210 ANS 5550	INCONEL ALLOY 702	INCONEL ALLOY 702	CU0.10	STO.	US	ANS 5550	---	SH,ST,PL	OXIDATION RESISTANCE TO 2000F/1093C.
AL3.3,CE0.3,CR16.2,FE19,NI/BAL61.2	1211 GOSTIEI599	E1599	CE0.3	STO.	UR	---	---	WROUGHT ALLOY	---
1212 G1KH16N60TYU	E1599A	E1599A	---	STO.	UR	---	---	WROUGHT ALLOY	COMBUSTION CANS,TAILPIPER,AFTERBURNER LINERS.
AL3.3,CR15.5,FE5.8,NI73.9,TT1.46	1213 G1KH15N7TYU3	---	---	STO.	UR	---	---	WROUGHT ALLOY	---
AL3.4,BA0.08,CR16.5,FE19,NI/BAL60.4,TT1	1214 IN-738	IN-738	TA1.5-2.0,ZR0.05-0.15,S0.01	C-0067	US	---	---	INVESTMENT CASTINGS	GOOD HOT CORROSION RESIST.,INDUSTRIAL GAS TURBINES.
1215 BS 3166/3 VMA 1451	IN-738	IN-738	ZR0.1,S0.015 MAX.	STO.	UK	---	---	INVESTMENT CASTING STK	JET ENGINE PARTS.
1216 BS 3166/3 VMA 1451	IN-738	IN-738	ZR0.05,S0.015 MAX.	STO.	UK	---	---	INVESTMENT CASTING STK	JET ENGINE PARTS.
1217 UCAR ALLOY IN-738 (C)	IN-738	IN-738	ZR0.10	C-0161	UK	---	---	BA-CASTINGS	---
AL3.4,BA0.09,CR16.5,FE19,NI/BAL66.6,N02.7,ZR0.1	1218 UNITEMP C-300	UNITEMP C-300	ZR0.1	C-0072	US	---	---	---	EXPERIMENTAL, HIGH-STRENGTH TO 11,200F/649C.
AL3.4,CO8.5,CR16,N01.8,NI161,TA1.6,TT3.4,W2.5	1219 NINOCAL 738	NINOCAL 738	TA1.6	C-0074	UK	---	---	VACUUM MELTED BAR,CAST	DEVELOPED AS ALLOY IN-738.
1220 NINOCAL 738LC	NINOCAL 738LC	NINOCAL 738LC	TA1.6	C-0074	UK	---	---	VACUUM MELTED BAR,CAST	LOW CARBON NOD. OF NINOCAL 738.
AL3.5,BA0.09,CR19,FE1.5,NI/BAL73.7,TT2.3	1221 G1V2H36L	---	CE0.01	STO.	UR	---	---	CAST ALLOY	UNKNOWN.
AL3.5,BA0.09,CR19,FE1.5,NI/BAL73.7,TT2.3	1222 UCAR ALLOY 81925 (C)	---	ZR0.02,TA4	C-0161	UK	---	---	CASTINGS	NOT ENO TURBINE PARTS, BLADES, ROTOR WHEELS.

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CHEMICAL COMPOSITION, WEIGHT PERCENT												
			CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOY (Continued)															
AL 3.5-B-CR08.5-CR16-M01.75-NB/CB1-NI/BAL59.5-TAL.75-TI3.5-M2.5	1223 BS 3143/3 VMA 16A (C)	IN 738	0.15-0.20	0.20 MAX.	0.30 MAX.	15.7-16.3	BAL. (61.5)	0-9	1.5-2.0	2.4-2.8	0.6-1.1	3.2-3.7	0.005-0.015	0.5 MAX.	
1224 BS 3146/3 VMA 16B (C)	IN 738LC		0.09-0.13	0.20 MAX.	0.30 MAX.	15.7-16.3	BAL. (61.5)	0-9	1.5-2.0	2.4-2.8	0.6-1.1	3.2-3.7	0.005-0.015	0.5 MAX.	
AL 3.5-B-CR08-CR14-M03.5-NB/CB3.5-NI/BAL61.3-TI2.5-M3.5-ZR0.05	1225 PYROMET 95	RENE 95	0.15	0.15 MAX.	0.20 MAX.	14	BAL. (61.3)	0.0	3.5	3.5	3.5	2.5	0.01		
1226 UCAR ALLOY R-95	RENE 95	RENE 95	0.15			14	BAL. (61.3)	0.0	3.5	3.5	3.5	2.5	0.01		
1227 UCAR ALLOY R-95	RENE 95	RENE 95	0.15			14	BAL. (61.3)	0.0	3.5	3.5	3.5	2.5	0.010		
1228 LESCALLOY 95	RENE 95	RENE 95	0.15			14	BAL. (61.3)	0.0	3.5	3.5	3.5	2.5	0.010		
AL 3.5-B-CR12-M01.8-NI/BAL70-TAL.75-M4.5-ZR0.02	1229 8-1925	(CAST)	LAP.			12	BAL. (70)	0.5	1.0	4.5		4.0	0.10		
AL 3.5-B-CR15.5-FE4.5-M05-NI/BAL68.4-TI2.5	1230 GMR-2350	(CAST)	0.15	0.10 MAX.	0.30 MAX.	15.5	BAL. (68.4)		5.0			2.5	0.05	4.5	
1231 BS 3146/3 VMA 78 (C)	CHM 2350	0.15	0.25 MAX.	0.25 MAX.	0.25 MAX.	15.5	BAL. (68.4)		5.25			2.5	0.04	4.0	
1232 UCAR ALLOY CHM-2350(C)	CHM 2350	0.15	0.25 MAX.	0.25 MAX.	0.25 MAX.	15.5	BAL. (68.4)		5.0			2.5	0.05	4.5	
1233 BS 3146/3 VMA 78 (C)	CHM 2350	0.10-0.20	0.25 MAX.	0.25 MAX.	0.25 MAX.	14-17	BAL. (68.4)		4.5-6.0			2.3	0.02-0.07	3.5-5.0	
AL 3.5-B-CR15-FE10-M05-NI/BAL64.5-TI2	1234 BS 3146/3 VMA 7A (C)	CHM 235	0.10-0.20	0.25 MAX.	0.30 MAX.	14-17	BAL. (64.5)		4.5-6.0			1.5-2.5	0.02-0.07	0.0-12	
AL 3.5-B-CR09-M01-NI/BAL60-TAL.25-TI3.5-M4.5-ZR0.02	1235 0-1964	(CAST)	LAP.			9.0	BAL. (60)	1.0	2.5	0.5		5.3	0.12		
AL 3.5-B-CR09-NB/CB1-NI/BAL69.4-TI5-M12-ZR0.02	1236 8-1962	(CAST)	LAP.			9.0	BAL. (60.4)	1.0		12.5	1.0	5.0	0.10		
AL 3.5-C01.5-CR11.5-FE2-M03-NI/BAL76.25-TI2.75	1237 INCONEL 705	0.10	2.0	2.0	1.0 MAX.	11	BAL. (76.2)	3.0 MAX.	3.0			2.75		4.0 MAX.	
AL 3.5-C015.5-CR11.5-FE2-M03-NI/BAL62.25-TI2.75	1238 INCONEL 706	0.10	2.0 MAX.	2.0 MAX.	1.0 MAX.	11	BAL. (62.2)	15.5	3.0			2.75		4.0 MAX.	
AL 3.5-C07-CR11.5-FE2-M03-NI/BAL70.75-TI2.75	1239 INCONEL 707	0.10	2.0 MAX.	2.0 MAX.	1.0 MAX.	11	BAL. (70.75)	7.0	3.0			2.75		4.0 MAX.	
AL 3.5-C08.5-CR16-FE0.25-NB/CB0.8-NI/BAL63.2-TAL.6-TI3.5-M2.6	1240 VAKUHEL TATS 385 LC-C	0.11				16	BAL. (63.2)	0.5	1.6	2.6	0.8	3.5		0.5 MAX.	
1241 ATS 385 LC-C	(CAST)	0.11				16	BAL. (63.2)	0.5	1.6	2.6	0.8	3.5		0.5 MAX.	
AL 3.6-B-CR16-M01.8-NI/BAL66.5-TI3.7-ZR0.02	1242 8-1981	(CAST)	LAP.			16	BAL. (66.5)	0.5				3.6	0.10		
AL 3.7-B-CR20.5-FE1.5-NI/BAL71.8-TI2.5	1243 C1VZHS6-L2	(CAST)	0.06 MAX.			19-22	BAL. (71.8)					2.3-2.7	0.03 MAX.	1.5 MAX.	
AL 3.75-C01.5-CR7.5-FE2-M03-NI/BAL79.25-TI3	1244 INCONEL 709	0.10	2.0 MAX.	2.0 MAX.	1.0 MAX.	7.5	BAL. (79.2)	3.0 MAX.	3.0			3.0		4.0 MAX.	
AL 3.75-C015.5-CR7.5-FE2-M03-NI/BAL60.25-TI3	1245 INCONEL 711	0.10	2.0 MAX.	2.0 MAX.	1.0 MAX.	7.5	BAL. (60.5)	15.5	3.0			3.0		4.0 MAX.	
AL 3.75-C07-CR7.5-FE2-M03-NI/BAL73.25-TI3	1246 INCONEL 710	0.10	2.0 MAX.	2.0 MAX.	1.0 MAX.	7.5	BAL. (73.2)	7.0	3.0			3.0		4.0 MAX.	
AL 3.8-B-C015-CR14-M06-NI/BAL55.6-TI2.5-M3	1247 REHE 63	RENE 63	0.10			14	BAL. (55.6)	15	6.0	3.0		2.5	0.015		
AL 3.8-CE-C07.5-CR8.5-M01.4-NB/CB4-NI/BAL60-TI1.2	1248 G1KMS6MKHAYUT		0.010-0.10	0.03-0.50	0.03-0.40	7-10	BAL. (60)	5-10	12-16		3-5	0.5-2.0	0.005-0.015		
1249 C0STIEP479			0.010-0.10	0.03-0.50	0.03-0.40	7-10	BAL. (60)	5-10	12-16		3-5	0.5-2.0	0.005-0.015		
AL 3.8-C015-CR15-M05-NI/BAL55.75-TI3.75-M2.5			0.04	0.10	0.10	15	BAL. (55.7)	15	5.0	2.5		3.75	0.02		

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
AL 3.5-B-C08-5	CR16-M04-75-NB/CB1-NI/BAL59-5,TAI-75,T								
1223	BS 3146/3 VNA 16A (C)	IN 738	TA1-4-2,ZR0-05-0.15,SO-01	STO.	UK	BS 3146/PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1224	BS 3146/3 VNA 16B (C)	IN 738LC	TA1-4-2,ZR0-03-0.08,SO-01	STO.	UK	BS 3146/PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL 3.5-B-C08-5	CR16-M03-5-NB/CB3-5-NI/BAL61-3,TI2-5,N3-5								
1225	PYROMET 95	RENE 95	ZR0-05	C-0042	US	---	---	WROUGHT FORMS	TURBINE AND COMPRESSOR DISCS.
1226	UCAR ALLY R-95	RENE 95	ZR0-05	C-0151	US	---	---	WROUGHT FORMS	TURBINE OR COMPRESSOR DISC ALLOY.
1227	UCAR ALLY R-95	RENE 95	ZR0-05	C-0078	US	---	---	WROUGHT FORMS	JET ENGINE COMPONENTS.
1228	LESCALLOY 95	RENE 95	ZR0-05	C-0084	US	---	---	WROUGHT FORMS	JET ENGINE COMPONENTS.
AL 3.5-B-CR12-M01-8-NI/BAL70-TA4,TI4,N4-5,ZR0-02									
1229	B-1925	(CAST)	ZR0-2,TA2-4	C-0164	US	---	---	INVESTMENT CASTINGS	GAS TURBINE BLADES AND COMPONENTS.
AL 3.5-B-CR15-5-FE4-5-M05-NI/BAL68-4,TI2-5									
1230	GMR-2350	(CAST)	---	C-0108	US	---	---	INVESTMENT CAST.	JET ENGINE PARTS.
1231	BS 3146/3 VNA 7B (C)	GMR 2350	---	STO.	UK	BS 3146 PT.3	---	INVESTMENT CASTING STK	JET ENGINE PARTS.
1232	UCAR ALLOY CHR-2350(C)	CHR-2350	---	C-0161	UK	---	---	BA-CASTINGS	---
1233	BS 3146/3 VNA 7B (C)	CHR 2350	(TYPAL) 5-6-6-5	STO.	UK	BS 3146 PT.3	---	INVESTMENT CASTINGS-VN	---
AL 3.5-B-CR15-FE10-M05-NI/BAL64-5,TI2									
1234	BS 3146/3 VNA 7A (C)	GMR 235	---	STO.	UK	BS 3146/PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL 3.5-B-CR9-M01-NI/BAL60-TA2-5,TI5-3,M6-5,ZR0-02									
1235	B-1964	(CAST)	ZR0-2,TA2-5	C-0164	US	---	---	INVESTMENT CASTINGS	GAS TURBINE BLADES AND COMPONENTS.
AL 3.5-B-CR9-NB/CB1-NI/BAL69-4,TI5-NI2-ZR0-02									
1236	B-1952	(CAST)	ZR0-2	C-0164	US	---	---	INVESTMENT CASTINGS	GAS TURBINE BLADES AND COMPONENTS.
AL 3.5-C01-5-CR11-FE2-M03-NI/BAL76-25,TI2-75									
1237	INCONEL 705	---	---	C-0067	US	---	---	---	---
AL 3.5-C015-5-CR11-FE2-N03-NI/BAL62-25,TI2-75									
1238	INCONEL 708	---	---	C-0067	US	---	---	---	---
AL 3.5-C07-CR11-FE2-M03-NI/BAL70-75,TI2-75									
1239	INCONEL 707	---	---	C-0067	US	---	---	---	---
AL 3.5-C08-5-CR16-FE0-25-NB/CB0-8-NI/BAL63-2,TA1-6,TI									
1240	VAKUMELT ATS 385 LC-G	---	TA1-6	C-0151	CY	---	---	INVESTMENT CASTINGS	GAS-TURBINE BLADES.
1241	ATS 385 LC-G	(CAST)	TA1-6	C-0151	CY	---	---	INVESTMENT CASTINGS	GAS-TURBINE BLADES.
AL 3.5-B-CR16-M01-8-NI/BAL66-5,TI3-7,ZR0-02									
1242	B-1961	(CAST)	ZR0-2	C-0164	US	---	---	INVESTMENT CASTINGS	GAS TURBINE BLADES AND COMPONENTS.
AL 3.5-B-CR20-5-FE1-5-NI/BAL71-8,TI2-5									
1243	GVZM36-L2	(CAST)	---	STO.	UR	---	---	INVESTMENT CASTINGS	AUTOMOTIVE TURBINE BLADES.
AL 3.5-C01-5-CR7-5-FE2-N03-NI/BAL79-25,TI3									
1244	INCONEL 709	---	---	C-0067	US	---	---	---	---
AL 3.5-C015-5-CR7-5-FE2-M03-NI/BAL60-25,TI3									
1245	INCONEL 711	---	---	C-0067	US	---	---	---	---
AL 3.5-C07-CR7-5-FE2-N03-NI/BAL73-25,TI3									
1246	INCONEL 710	---	---	C-0067	US	---	---	---	---
AL 3.5-B-C015-CR14-N06-NI/BAL55-6,TI2-5,N3									
1247	RENE 63	RENE 63	---	C-0078	US	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE COMPONENTS.
AL 3.5-B-C07-5-CR8-5-M01-4-NB/CB4-NI/BAL60-TI1-2									
1248	CEC 09-01,SO-015M,P0-015	---	CE0-09-01,SO-015M,P0-015	STO.	UR	TU14-1-913	---	WROUGHT FORMS	---
1249	CEC 09-01,SO-015M,P0-015	---	CE0-09-01,SO-015M,P0-015	STO.	UR	TU14-1-913	---	WROUGHT FORMS	---
AL 3.5-B-C015-CR15-M05-NI/BAL55-75,TI3-75,M2-5									
1250	PYROMET 925	---	---	C-0042	US	---	---	WROUGHT FORMS	TURBINE DISCS.

TABLE 2. (Continued)

CHEMICAL COMPOSITION+WEIGHT PERCENT-----															
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL <small>NICKEL-BORON ALLOYS (Wt.%)</small>	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM COLUMBIUM	TITANIUM	ALUMINUM	BORON	FROM
1251	AFHOK N-CX200AT		0.12 MAX.	0.75 MAX.	0.75 MAX.	18-20	BAL. (52.5)	15-20	305			2.75-3.25	2.75-3.25	0.002-0.000	2.0 MAX.
1252	BS 3146/3 VNA 9ICAST1	NIN. 105JU-500	0.05-0.10	0.20 MAX.	0.30 MAX.	16-20	BAL. (54)	16-20	3-5			2.5-3.25	2.5-3.25	0.003-0.01	2.0 MAX.
1253	RENE 00		0.17	0.2 MAX.		14	BAL. (60.3)	9.5	4.0	4.0		5.0	3.0	0.015	
1254	ROSS VAC 53 (CAST)	RENE 00	0.17	0.2 MAX.		14	BAL. (60)	9.5	4.0	4.0		5.0	3.0	0.015	0.2 MAX.
1255	UCAR ALLOY R-00		0.17			14	BAL. (60)	9.5	4.0	4.0		5.0	3.0		
1256	G1VZML6 (CAST)		0.10-0.20			4-7	BAL. (69.2)		4.5-6.0			2.5-3.5	2.5-3.5	0.06	0-12
1257	UCAR ALLOY GNR-235(C)		0.15	0.25 MAX.	0.60 MAX.	15-5	BAL. (63.2)		5.25			2.0	3.0	0.06	10
1258	BS 3146/3 VNA 7A (C)	GNR-235	0.15	0.25 MAX.	0.3 MAX.	16-17	BAL. (63.2)		5.25			2.0	3.0	0.04	10
1259	GMR-235 (CAST)		0.10-0.20	0.10 MAX.	0.30 MAX.	14-17	BAL. (63.2)		4.5-6.0			1.5-2.5	2.5-3.5	0.05-0.10	0-12
1260	MSI 606		0.10-0.20	0.10 MAX.	0.30 MAX.	14-17	BAL. (63.2)		4.5-6.0			1.5-2.5	2.5-3.5		
1261	G1VZM17 (CAST)					15	BAL. (71)			10.0			3.0	0.000	
1262	INCONEL 703		0.10	2.0 MAX.	1.0 MAX.	15	BAL. (54.7)	20	3.0			2.25	3.0		4.0 MAX.
1263	AFHOK NK 27 CAOT		0.12			15	BAL. (46)	27	3.0			2.1	3.0		4.0 MAX.
1264	AFHOK NK 27 CAOT	INCONEL ALLOY 700	0.12			15	BAL. (46)	27	3.0			2.1	3.0		4.0 MAX.
1265	INCONEL ALLOY 700		0.12	0.10	0.30	15	BAL. (46)	20.5	3.7			2.2	3.0		0.7
1266	INCONEL ALLOY 700		0.12	0.10	0.30	13-17	BAL. (46)	14-20	4.5-6.0			2.75-4.00	3.75-5.00	0.01-0.05NA	4.0 MAX.
1267	UDINET 700		0.15 MAX			10	BAL. (46)	14-20	4.5-6.0			2.9	2.9	0.007	2.0 MAX.
1268	MASTELLOY ALLOY 700		0.10	0.15 MAX	0.25 MAX	13-17	BAL. (46)	25-30	3.25-4.25			2.25-2.75	2.85-3.35	0.002-0.010	2.0 MAX.
1269	ALLVAC I-700	INCONEL ALLOY 700	0.12	0.1	0.3	15	BAL. (46)	28.5	3.75			2.2	3.0		0.7
1270	MICKELVAC-700														
1271	RTG 10		0.15			15	BAL. (44.3)	30	4.2			2.5	3.0		2.0 MAX.
1272	GOSTIEP99	EP99				21-24	BAL. (54.6)	5-10	3.5-5.0	6-8		1.0-1.5	2.5-3.5		
1273	GOSTIEP99		0.12 MAX.	0.50 MAX.	0.5 MAX.	9-12	BAL. (50.6)	12-16	4-6	4.5-6.0		1.4-2.0	3.6-4.5	0.02 MAX.	5.0 MAX.
1274	GKHN55N1KYU	ET929	0.12 MAX.	0.50 MAX.	0.5 MAX.	9-12	BAL. (56.6)	12-16	4-6	4.5-6.0		1.4-2.0	3.6-4.5	0.02 MAX.	5.0 MAX.
1275	HELNI 19		0.14			19.7	BAL. (58.0)	9.4		5.75		1.95	4.00	0.24	
1276	HELNI 22		0.14			18.8	BAL. (61.9)	7.05	2.2	2.05		2.04	4.12	0.21	
1277	BS 3146/3 VNA 8ICAST1		0.15	0.10	0.2 MAX.	15.5	BAL. (58.4)	9.75	0.3			3.60	4.15	0.006	0.25
1278	BS 3146/3 VNA 8ICAST1	NS-169.6-1023	0.15	0.2 MAX.	0.2 MAX.	15.5	BAL. (58.3)	9.75	0.3			3.6	4.15	0.006	0.5 MAX.
1279	C 1023 (CAST)		0.16	0.2 MAX.	0.20 MAX.	15.5	BAL. (61.4)	10	0.45	0.20 MAX.	0.25 MAX.	3.6	4.2	0.0006	0.5 MAX.
1280	BS 3146/3 VNA 8ICAST1		0.12-0.10	0.20 MAX.	0.20 MAX.	14.5-16.5	BAL. (40.0)	9.0-10.5	7.6-9.0			3.4-3.8	3.9-4.4	0.004-0.000	0.5 MAX.
1281	G-70		0.10	LAP.	LAP.	15	BAL. (52.2)	19	6.0			3.5	4.2	BORON +	
1282	GOSTIEP57	EP57				9-12	BAL. (62.4)	14-16	4-6	5-7		2.0-2.0	3.7-4.7		5.0

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL3-B-C017-5-CR19-FE1-NI4-NI/BAL52-5-TI3	1251	AFNOR N-CR200AT		STD.	GROUP IV - NICKEL-BASE ALLOYS (Continued)			BA+FG	
AL3-B-C018-CR19-FE0.1-MO4-NI/BAL54-TI3	1252	BS 3146/3 VMA 91CAST1 MIN. 105-U-500	C00.1 MAX.50.015 MAX.	STD.	UK	BS 3143IPT.3		INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL3-B-C019-5-CR14-NI4-NI/BAL60-3-TI5-M4-ZR0.03	1253	RENE 80	ZR0.03	C-0078	US			INVESTMENT CASTINGS	TURBINE BLADE ALLOY.
1254	ROSS VAC 53 (CAST)	RENE 80		C-0065	UK			WROUGHT FORMS	JET ENGINE PARTS.
1255	UCAR ALLOY R-80	RENE 80	ZR0.03	C-0161	UK				
AL3-B-CR10-5-FE10-MO5-2-NI/BAL69-2-TI2-1	1256	GIVZHL8 (CAST)		STD.	UR			INVESTMENT CASTINGS	NOZZLE GUIDE VANES.
AL3-B-CR15-5-FE10-MO5-25-NI/BAL63-2-TI2	1257	UCAR ALLOY GNR-235(C)		C-0161	UK			BA+CASTINGS	
1258	BS 3146/3 VMA 7A (C)	GNR-235		C-0108	US	AISI 686		INVESTMENT CAST-SM-B4	JET ENGINE PARTS.
1259	GNR-235 (CAST)	GNR-235		STD.	US	AISI 686		SN-B4+N INVEST. CAST.	NOZZLE DIAPHRAGMS, JET ENGINES TD11750F/95AC.
AL3-B-CR15-NI/BAL71-V1-M10	1261	GIVZHL7 (CAST)	V1.0	STD.	UR			CAST ALLOY	
AL3-C020-CR15-FE2-MO3-NI/BAL54-75-TI2-25	1262	INCONEL 703		C-0067	US			WROUGHT FORMS.	
AL3-C028-5-CR15-FE0.7-MO3-75-NI46-TI2-2	1263	ATG S8 INCONEL ALLOY 700		C-0102	FR	NK 27 CADT		WROUGHT FORMS	JET ENGINE COMPONENTS AND GAS TURBINE BLADES.
1264	AFNOR NK 27 CADT	INCONEL ALLOY 700		STD.	FR	NK 27 CADT		WROUGHT FORMS	JET ENGINE COMPONENTS AND GAS TURBINE BLADES.
1265	UCAR ALLOY IN-700	INCONEL ALLOY 700		C-0061	US			BA+FG STOCK	JET ENGINE COMPONENTS AND GAS TURBINE BLADES.
1266	INCONEL 700	INCONEL ALLOY 700		C-0067	US			BA+FG, 81-CASTING STOCK	GAS TURBINE BLADES, WHEELS.
1268	HASTELLOY ALLOY 700	INCONEL ALLOY 700		C-0066	US			BA+FG	GAS TURBINE BUCKETS, JET ENGINE COMPONENTS.
1269	ALLVAC I-700	INCONEL ALLOY 700	ZR0.02-0.1-CU0.14-S0.015,	C-0068	US			BA+FG	GAS TURBINE BLADES, JET ENGINE COMPONENTS.
1270	NICKELVAC-700	INCONEL ALLOY 700	CU0.05	C-0008	US				
AL3-C030-CR15-FE1-MO4-2-NI/BAL44-3-TI2-5	1271	RTG 18		C-0160	GY			WROUGHT FORMS	
AL3-C07-5-CR22-5-MO4-2-NI/BAL54-6-TI1-25-M7	1272	GOSTEP99 EP99		STD.	UR			WROUGHT ALLOY	
AL4-05-8-C014-CR10-5-FE5-MO5-NI/BAL58-6-TI1-7-V0-5-M	1273	EP99		STD.	UR			WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
1274	GKNM55VNTKYU	EP99	S0.01MAX.,P0.015MAX.	STD.	UR	GOST 5632-72		WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
AL4-08-8-C09-4-CR19-7-LA0-17-NI/8AL58-8-TI1-95-M75	1275	MELNI 19	ZR0.14,LA0.17		US				
AL4-12-8-C07-85-CR18-8-LA0-16-M02-2-NI/8AL61-9-TI2-8	1276	MELNI 22	ZR0.16,LA0.16		US				
AL4-15-8-C09-75-CR15-5-FE0-25-MO8-3-NI/8AL58-4-TI3-6	1277	UCAR ALLOY C-1023		C-0161	UK	MSR 7846		INVESTMENT CASTING STK	JET ENGINE PARTS.
1278	BS 3146/3 VMA 8(CAST)	MS-89-C-1023		STD.	UK			CASTINGS	
AL4-2-8-C010-CR15-5-FE0-1-MD0-5-NB/C00-25-NI/BAL61-4	1279	C 1023 (CAST)		C-0093	UK				
AL4-2-8-C010-CR15-FE0-25-MD0-NI/8AL40-8-TI3-6	1280	BS 3146/3 VMA 8(CAST)		STD.	UK	BS 3143IPT.3		INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL4-2-B-C019-CR15-MO6-NI/8AL52-2-TI3-5-ZR	1281	G-70	ZIRCONIUM +	C-0147	UK			WROUGHT FORMS	
AL4-2-C015-CR10-5-FE5-MO5-NI/8AL62-4-M6-V0-5	1282	GOSTEP57 EP57	V0-2-0-8	STD.	UR			WROUGHT ALLOY	

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT															BORON	IRON
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM			
GROUP IV - NICKEL-BASE ALLOYS (Continued)																
AL4.2	CO15,CR10,MO5.6,NI/BAL57,Ti2.4,V0.3,W5.5		0.06	0.02	0.09	10.0	BAL. (57) 15		5.6	5.5		2.4	4.2			
1283	GOST HE220	EP220	0.06	0.02	0.09	10	BAL. (57) 15		5.6	5.5		2.4	4.2			
AL4.25	B,C018.5,CR15.5,FE1.M05.2,NI/BAL52.3,Ti13.5		0.07	0.15 MAX.	0.2 MAX.	14.6	BAL. (52.3) 14.8		4.2			3.3	4.3	0.016	0.5 MAX.	
1285	BS 3146/3 VMA 10 (C)	UOIMET 700	0.10	0.75 MAX.	0.20 MAX.	14-16	BAL. (52.3) 17-20		4.5-5.5			2.75-3.75	3.75-4.75	0.015-0.035	4.0 MAX.	
1287	AFMOR NK 18 COAT	UOIMET 700	0.03-0.10	0.75 MAX.	0.20 MAX.	14-16	BAL. (52.3) 17-20		4.5-5.5			2.75-3.75	3.75-4.75	0.015-0.035	4.0 MAX.	
1288	UCAR ALLOY U-700	UOIMET 700	0.15			15	BAL. (52.3) 18.5		5.2			3.5	4.25	0.05		
1289	VAKUMET 388-C (CAST)	UOIMET 700	0.05-0.10	0.15 MAX.	0.20 MAX.	14-16	BAL. (52.3) 17-20		4.5-5.5			2.75-3.75	3.75-4.75	0.025-0.35	1.0 MAX.	
1290	AIR 9165-171	UOIMET 700	0.03-0.10	0.75 MAX.	0.20 MAX.	14-16	BAL. (52.3) 17-20		4.5-5.5			2.75-3.75	3.75-4.75	0.015-0.035	4.0 MAX.	
AL4.25	3.C09.5,CR15.8,MO3.8,MB/CB24,NI/BAL60.6,Ti1.75,W3.5,ZR0.05		0.20 MAX.	0.20 MAX.	0.20 MAX.	15.2-16.0	BAL. (60.6) 9-10		1.8-2.2	3.6-4.0	1.8-2.2	1.6-1.9	4.1-4.5	0.012-0.017	1.0 MAX.	
1291	MAK-H ALLOY (CAST)	MAK-H #42	0.12-0.17													
AL4.3	B,C018.0,CR10.0,FE5.7,NI/BAL69.3,V0.7,W5		0.12 MAX.	0.40 MAX.	0.4 MAX.	9-11	BAL. (69.3) 9-11		5.0-6.5				4.8-4.6	0.01-0.02	5.0 MAX.	
1292	GOST HE1627	E1627	0.12 MAX.	0.40 MAX.	0.4 MAX.	9-11	BAL. (69.3) 9-11		5.0-6.5				4.8-4.6	0.01-0.02	5.0 MAX.	
1293	GKHM75VMYU	E1627														
AL4.3	B,C09.8,CR10.8,MO4.9,NI/BAL62.7,V1.5,W6		0.10			10.8	BAL. (62.7) 9.8		4.9	6.0			4.3	0.03		
1294	GITSZM2															
AL4.3	CE0.01,MO10.5,NI/BAL80.2,W5		0.07				BAL. (80.2)		9-12	4-6			4-7			
1295	GOST HE1661	E1661														
AL4.35	S,CK10,FE4,MO9,MI/BAL67.7,W5		0.07	0.4	0.40	9-11	BAL. (67.7)		8-10	4.5-5.5			4.1-4.6	0.01-0.02	4.0	
1296	GOST HE1620	E1620														
AL4.4	B,C015,CR15.5,MO5,MI/BAL57,Ti13.5,ZR0.04		0.06	0.15 MAX.	0.20 MAX.	15	BAL. (57) 15		5.0			3.5	4.4	0.02		
1297	RENE 77	RENE 77														
AL4.4	B,C017,CR15,FE2.M05.2,MI/BAL52.3,Ti13.3		0.15 MAX.			13-17	BAL. (52.3) 14-20		4.5-6.0			2.75-4.00	3.75-5.00	0.01-0.05MA	4.0 MAX.	
1298	UOIMET 700	UOIMET 700	0.15 MAX.			13-17	BAL. (52.3) 14-20		4.5-6.0			2.75-4.00	3.75-5.00	0.01-0.05MA	4.0 MAX.	
1299	AISI 687	UOIMET 700														
AL4.4	B,C022,CR15,FE1.M04.5,MI/BAL49.8,Ti2.4		0.08	0.3	0.5	15	BAL. (49.8) 22		4.5			2.4	4.4	0.015	1.0	
1300	SEL (CAST)	SEL	0.05-0.11	0.20 MAX.	0.20 MAX.	13.5-16.5	BAL. (53.7) 20-24		4-5			2.0-2.7	4.0-4.5	0.01-0.02	1.0 MAX.	
1301	BS 3146/3 VMA 11 (C)	SEL 1														
AL4.4	B,C026,CR15,FE0.5,MO4.5,MI/BAL46.7,Ti2.3		0.08			15	BAL. (46.7) 26		4.5			2.3	4.4	0.015	1.0	
1302	SEL 1 (CAST)	SEL														
AL4.5	B,C08.02,C05,CR9.2,FE4,MO10.2,MI/BAL62.W5.1		0.10 MAX.	0.30 MAX.	0.60 MAX.	8.5-10.0	62	4-6	9.0-11.5	4.3-6.0			4.2-4.9	0.02 MAX.	4.0 MAX.	
1303	GKHM62VMYU	GOST E1667														
AL4.5	B,C018,CR10,FE1.M02,MI/BAL57,TA8,Ti1.V1,W5.5,ZR0.03		0.13			10	BAL. (57) 10		2.0	5.5		1.0	4.5	0.02		
1304	TRN MSA II-B															
AL4.5	B,C018,CR10,MO2,MB/CB1,MI/BAL53.9,TA8,Ti1,RE4,W5.5,ZR0.03		0.13			10	BAL. (53.8) 10		2.0	5.5		1.0	4.5	0.02		
1305	TRN MSA III-G															
AL4.5	B,C015,CR14.5,FE0.25,MO4,MI/BAL58.5,MO.025,Ti3.5		0.05-0.10	0.15 MAX.	0.20 MAX.	14-15.25	BAL. (58.5) 14.25-15.25	3.9-4.5				3.0-3.7	4.0-4.6	0.012-0.020	0.5 MAX.	
1306	BS 3146/3 VMA 10 (C)	MINOMIC 115,U700														
AL4.5	B,C05,CR9,FE2.M018.3,MI/BAL68.1,V0.96,W5		0.10	0.30	0.60	8.5-10.5	BAL. (68.1) 4-6		9-11				4.2-4.9		4.0	
1307	GOST HE1667															
AL4.5	CO18,CR12.5,MO5.7,MI63.0,Ti13.5		0.04			12.5	63.8	10	5.7			3.5	4.5			
1308	MINOMIC ALLOY 120	MINOMIC 120														
AL4.5	CO18,CR6.M01.NB/CB2,MI/BAL60.TA6,Ti2.W6.5					6.0	BAL. (60) 10.0		1.0	8.5	2.0	2.0	4.5			
1309	F0R0-406	F0R0-406														

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOT DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTBY CODE	PRIME COUNTRY PUBLIC STANDARDS	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL BASE ALLOYS (Continued)									
AL4.2	CO15,CR10,MO5.6,NI/BAL57,TI2.4,V0.3,N5.5		V0.3	STD.	UR			MROUGHT FORMS	
1263	GOST IE220		V0.3	STD.	UR			MROUGHT ALLOY	
1264	GOST IE220	EP220							
AL4.25	B-C016.5,CR15,FE1.1,M05.2,NI/BAL52.3,TI3.3								
1265	BS 3146/3 VMA 10	(C) UOINET 700-MIN. 115							
1266	ATC 43	UOINET 700							
1267	AFNR MK 13 COAT	UOINET 700							
1268	UCAR ALLOY U-700	UOINET 700							
1269	VACUMELT 300-G (CAST)	UOINET 700							
1290	AIR 9165-111	UOINET 700							
AL4.25	B-C016.5,CR15.6,M03.8,NB/CB12,MI/BAL60.6,TI1.75								
1291	MAR-N ALLOY (CAST)	NAR-N 421							
1292	CR10.0,FE4.0,M05.7,NI/BAL60.3,V0.7,N5								
1293	G1KN75VHYU	E1827							
1294	CITSZME2								
AL4.3	B-C09.8,CR10.0,M06.9,NI/BAL62.7,V1.5,N6								
1295	GOST IE1661	E1661							
AL4.35	B-CR10.0,FE4.0,M09.0,NI/BAL67.7,N5								
1296	GOST IE1820	E1820							
AL4.4	B-C015,CR15,M05.0,NI/BAL57,TI3.5,ZR0.04								
1297	RENE 77	RENE 77							
AL4.4	B-C017,CR15,FE2.0,M05.2,NI/BAL52.3,TI3.3								
1298	UOINET 700	UOINET 700							
1299	AISI 687	UOINET 700							
AL4.4	B-C022,CR15,FE1.0,M04.5,NI/BAL49.8,TI2.4								
1300	SEL (CAST)	SEL							
1301	BS 3146/3 VMA 11	(C) SEL 1							
AL4.4	B-C026,CR15,FE0.5,M04.5,NI/BAL46.7,TI2.3								
1302	SEL 1	(CAST) SEL							
AL4.5	B-C05,CR3.2,FE4.0,M010.2,NI/BAL62,N5.1								
1303	C1KH62VMKYU	COST: E1667							
AL4.5	B-C010,CR10,M01.0,NF1.0,M02.0,NI/BAL57,TAG.1,TI1.0,N5.5,ZR								
1304	TRM MASA III-C								
AL4.5	B-C010,CR10,M02.0,NB/CB1,NI/BAL53.9,TAG.1,TI1.0,N5.5								
1305	TRM MASA III-C								
AL4.5	B-C015,CR15,FE0.25,M04.0,NI/BAL58.5,N0.025,TI3.3								
1306	BS 3146/3 VMA 10	(C) NIOMIC 115,0700							
AL4.5	B-C05,CR9,FE2.0,M010.3,NI/BAL60.1,V0.06,N5								
1307	GOST IE1867								
AL4.5	CO10,CR12.5,M05.7,NI63.8,TI3.5								
1308	NIOMIC ALLOY 120	NIOMIC 120							
AL4.5	CO10,CR6,M01.0,NB/C02,NI/BAL60,TAG.1,TI2.0,N8.5								
1309	FORD-406	FORD-406							

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT																
ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	IRON			
GROUP IV - NICKEL-BASE ALLOYS (Continued)																
ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	IRON			
AL4.5-C025-CR15-M04.5-NI-6AL4.7-4.1I2.5 310 C.73	CASTI C.73	0.08	---	---	15	BAL. (47.4)	26	4.5	---	---	2.5	4.5	BORON †			
AL4.55-B-C05-0.02-C05-CR9.5-FE4-M010.25-NI-BAL1.6-M5.1 311 GOST IE1867 312 G1KHNS2MKYU 313 G1KHNS2MKYU	EI867 EI867 EI667	0.10 MAX. 0.10 MAX. 0.10 MAX.	0.30 MAX. 0.30 MAX. 0.30 MAX.	0.6 MAX. 0.6 MAX. 0.6 MAX.	8.5-10.5 8.5-10.5 8.5-10.5	BAL. (61.6) BAL. (61.6) BAL. (61.6)	4-6 4-6 4-6	9.0-11.5 9.0-11.5 9.0-11.5	4.3-6.0 4.3-6.0 4.3-6.0	---	---	4.2-4.9 4.2-4.9 4.2-4.9	0.02 MAX. 0.02 MAX. 0.02 MAX.			
AL4.6-B-C05-0.01-CR10-FE18.5-M05.75-NI-8AL56.2-M5 314 GOST IE1867 315 G1KHNS56YU 316 G1KHNS56YU	EP454 EP454 EP454	0.08 MAX. 0.08 MAX. 0.08 MAX.	0.40 MAX. 0.40 MAX. 0.40 MAX.	0.4 MAX. 0.4 MAX. 0.4 MAX.	9-11 9-11 9-11	BAL. (56.2) BAL. (56.2) BAL. (56.2)	---	5.0-6.5 5.0-6.5 5.0-6.5	4.5-5.5 4.5-5.5 4.5-5.5	---	---	4.2-5.0 4.2-5.0 4.2-5.0	0.01 MAX. 0.01 MAX. 0.01 MAX.			
AL4.6-B-C010-CR12-M03-NI-6AL59.5-TAI1.5-TI3-M6.2B0.1 317 AF2-10A 318 UNITEMP AF 2-10A 319 AF-2-10	AF2-10A AF2-10A AF2-10A	0.32 0.32 0.35	0.1 ---	0.1 ---	12 12 12	BAL. (53.5) BAL. (59.5) BAL. (73.8)	10 10 10	3.0 3.0 5.0	6.0 6.0 5.0	---	---	4.6 4.6 4.6	0.015 0.015 0.015			
AL4.6-B-CR15-CU0.1-FE5-M05.25-NI-BAL66.1-TI3.5 1320 OCN ALLOY	OCN	0.18 MAX.	0.10 MAX.	0.15 MAX.	14-16	BAL. (66.1)	---	4.5-6.0	---	---	---	4.4-4.8	0.07-0.09			
AL4.6-C010-CR12.5-FE0.5-M05.75-NI-BAL63.13-M6.25B0.025 1321 NIMONIC 120	---	0.04-0.08	1.0 MAX.	0.4 MAX.	12-15	BAL. (63)	10	5.75	---	---	---	4.6	0.025			
AL4.7-C020-CR15-M05-NI53-TI11.2 1322 HERKSTOFF 2.4634 LN 1323 ATCS 65 1324 AIR 9185-131 1325 ALLVAC 105 1326 RSAPS MH-14 1327 3S HR 3 1328 ACORAL-CP 64-HT 1329 AFOR MC02 15 1330 AFOR MC02 20 1331 CBALLOY 4634 1332 CBAL 34 1333 HM MO V 2 1334 PER 7 1335 LASTE 4634 1336 EN2179(PRI)2.4634 LN 1337 EN2180(PRI)2.4634 LN 1338 EN2181(PRI)2.4634 LN 1339 EN2182(PRI)2.4634 LN 1340 RTC 16 1341 NIMONIC ALLOY 105	NIMONIC 105 (SIMILAR) NIMONIC 105 NIMONIC 1															

LINE	ALLOY NAME OR DESIGNATION	CANNON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
AL4.5	G026,CR15,N04.5,N1/BAL47.4,T12.5 1310 G.73	(ICAST) G.73	---	C-0147	UK	---	---	INVESTMENT CASTINGS	---
AL4.55	B,C010.02,C09.5,FE4,N010.25,N1/BAL1.6,W5.1 1311 GOST HEI 067	EI 067	GE0.02M,S0.011N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
1312	G1KN62NKYU	EI 067	GE0.02M,S0.011N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
1313	G1KN62NKYU	EI 067	GE0.02M,S0.011N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	ROTATING TURBINE BLADES (AIRCRAFT).
AL4.6	B,C010.01,GR10,FE10.5,N05.75,N1/BAL56.2,*** 1314 GOST HE P454	EP454	GE0.01N,S0.01N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	---
1315	G1KN55NVYU	EP454	GE0.01N,S0.01N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	---
1316	G1KN55NVYU	EP454	GE0.01N,S0.01N,P0.015N	STO.	UR	GOST 5632-72	---	WROUGHT FORMS	---
AL4.6	B,C010.01,GR12,N03,N1/BAL59.5,T41.5,T13,W6,ZR0.1 1317 AF 2-10	AF2-10	ZR0.10,T41.5	G-0072	US	---	---	---	TURBINE DISCS, BLADES.
1318	UNITENP AF 2-10A	AF2-10A	---	STO.	UK	BS NR 4	---	---	TURBINE DISCS, BLADES.
AL4.6	B,C010.01,GR12,N1/BAL73.8,T41.5,T13,W5,ZR0.1 1319 AF 2-10	---	T41.5,ZR0.10	C-0072	US	---	---	WROUGHT FORMS	JET ENGINE DISCS, 10-1900F/902-1030 G.
AL4.6	B,C010.01,FE5,N05.25,N1/BAL66.1,T13.5 1320 OCM ALLOY	(ICAST) OCM	G00.10NAX	C-0065	US	---	---	VACUUM INVESTMENT CAST	TURBINE BLADES, JET ENGINE COMPONENTS.
AL4.6	C010.01,GR12.5,FE0.5,N05.75,N1/BAL63.T3.6,ZR0.025 1321 NINONIG 120	---	ZR0.05 MAX.	C-0074	UK	---	---	WROUGHT FORMS	---
AL4.7	G020.0515,N05,N153,T11.2 1322 ATS-360	NINONIG 105 (SINILAR)	C00.2 MAX,ZR0.15 MAX.	C-0125	GY	2.4634 LN	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS, FASTENERS.
1323	WEKSTOFF 2.4634 LN	NINONIG 105	ZR0.15,G00.2	STO.	FR	---	---	BA.FG,SN,ST	GAS TURBINE COMPONENTS.
1324	ATG 65	NINONIG 105	ZR0.15MAX,S0.03N,P0.015N	C-0102	FR	NI-P 61-MT	---	WROUGHT FORMS	GAS TURBINE COMPONENTS.
1325	AIR 9165-191	NINONIG 105	ZR0.00-0.12,G00.2 MAX.	STO.	FR	BS NR 3	---	BA.FG	GAS TURBINE BLADES DISCS AND SHAFTS.
1326	ALLVAG 105	NINONIG 105	---	C-0000	SM	---	---	BI.BM,FG,ANO PARTS	JET ENGINE COMPONENTS AND TURBINE BLADES.
1327	RSABS WH-14	NINONIG 105	---	STO.	SM	MM,14	---	WROUGHT FORMS	TURBINE BLADES,DISCS AND SHAFTS TO1172AF/940C
1328	AKN-1-P 61-MT	NINONIG 105	---	STO.	FR	NI-P 61-MT	---	WROUGHT FORMS	TURBINE BLADES,DISCS AND SHAFTS TO1172AF/940C
1329	AGN-1-P 61-MT	NINONIG 105	---	STO.	FR	NI-P 61-MT	---	WROUGHT FORMS	TURBINE BLADES,DISCS AND SHAFTS TO1172AF/940C
1330	OGN NIEG0R 15 H04,LT1	NINONIG 105	---	STO.	GY	NIGOG615N0T1	---	WROUGHT FORMS	TURBINE TRANSMISSIONS AND TURBINE BLADES.
1331	AFORALLOY 4634	NINONIG 105	C00.5N,S0.03N,P0.045N	C-0194	GY	NI-P 61-MT	---	WROUGHT FORMS	GAS TURBINE COMPONENTS AND TURBINE BLADES.
1332	CBL 34	NINONIG 105	C00.5NAX,S0.03N,P0.045N	C-0180	GY	2.4634 LN	---	WROUGHT FORMS	PARTS FOR PIPE-LESS,ROLLERS AND TURBINES.
1333	HM NO 2	NINONIG 105	S0.035NAX,P0.035 MAX.	C-0188	GY	1.4923 OIN	---	WROUGHT FORMS	GAS TURBINE BLADES AND COMPONENTS.
1334	PERTE 4634	NINONIG 105	S0.035NAX,P0.045 MAX.	C-0195	FR	2.4634 LN	---	WROUGHT FORMS	---
1335	EN2180(PR)2.4634 LN	NINONIG 105	S0.03NAX,P0.045NAX.	C-0196	EU	NI-P 61-MT	---	WROUGHT FORMS	---
1336	EN2180(PR)2.4634 LN	NINONIG 105	---	STO.	EU	NI-P 61-MT	---	WROUGHT FORMS	---
1337	EN2180(PR)2.4634 LN	NINONIG 105	C00.2NAX,S0.007NAX.	STO.	EU	NI-P 61-MT	---	WROUGHT FORMS	---
1338	EN2180(PR)2.4634 LN	NINONIG 105	---	STO.	EU	NI-P 61-MT	---	WROUGHT FORMS	---
1339	EN2180(PR)2.4634 LN	NINONIG 105	---	STO.	EU	NI-P 61-MT	---	WROUGHT FORMS	---
1340	RTG 16	NINONIG 105	---	C-0160	GY	2.4634 LN	---	WROUGHT FORMS	---
1341	NINONIG ALLOY 105	NINONIG 105	---	C-0074	UK	BS NR 3.0T0	5007	BA,SN,ST,FG,EXT,N,R,SE	GAS TURBINE BLADES,DISCS,SHAFTS,TO1172AF/940C.
AL4.8	B,C014.9,CR15,FE0.2,N03.5,N1/BAL57.7,T13.05,ZR 1342 NINONIC ALLOY 110	NINONIC 110	P00.005 MAX,S0.05 MAX.	C-0074	UK	---	---	BA	JET ENGINE AND GAS TURBINE COMPONENTS.
AL4.8	G020.010,FE1,N05,N1/BAL55.5,T13.7 1343 NINOCAST NG 59 (ICAST) NINOCAST 250	NINOCAST NG 59 (ICAST) NINOCAST 250	---	C-0074	UK	---	---	GASTING ALLY RENETL STOCK, CASTINGS	JET ENGINE AND GAS TURBINE COMPONENTS.
1344	NINOCAST 250	(ICAST)	---	C-0074	UK	---	---	---	TURBINE BLADES, JET ENGINE AND MISSLE PARTS.
AL4.9	B,C014.9,FE0.7,N03.55,N1/BAL56.T13.05,ZR0.045 1345 NINONIC ALLOY 110	NINONIC 110	ZR0.045	C-0074	UK	---	---	WROUGHT FORMS	GAS TURBINE AND JET ENGINE COMPONENTS.
1346	ATS-390	NINONIC 115 (SINILAR)	ZR0.2	C-0125	GY	---	---	WROUGHT FORMS	JET ENGINE AND GAS TURBINE PARTS, MISSLES.
AL4.9	B,C010.01,GR12,N1/BAL61.8,T41.5,T13,W5,ZR0.05 1347 NINOTUNG	(ICAST) NINOTUNG	ZR0.02-0.00	G-0073	US	---	---	INVESTMENT CASTINGS	NIGH-STRENGTN PARTS,GAS TURBINE BLADES,BUCKETS
AL4.9	B,C014.9,FE2.5,N05,N1/BAL61.8,T41.7,W0.6,W5. 1348 G1KN55NVATKYUR (FI 959)	(FI 959)	V0.6,BA0.1 MAX. V0.6,BA0.1 MAX.	STO.	UR	---	---	WROUGHT FORMS	AIRCRAFT TURBINE BLADES.
1349	GOST HE1929	---	---	STO.	UR	---	---	WROUGHT FORMS	AIRCRAFT TURBINE BLADES.
AL4.9	B,C017.6,GR15,N05.25,N1/BAL55.5,T13.5,ZR0.06 1350 ASTROLOY	ASTROLOY	ZR0.06	C-0078	US	---	---	WROUGHT FORMS	FORGINGS FOR HIGH TEMPERATURES.
1351	ALLVAC ASTROLOY	ASTROLOY	---	C-0008	US	---	---	WROUGHT FORMS	TURBINE WHEELS, BLADES, DISCS, NOZZLES.
1352	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1353	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1354	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1355	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1356	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1357	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1358	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1359	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1360	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1361	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1362	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1363	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1364	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1365	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1366	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1367	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1368	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1369	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1370	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1371	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1372	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1373	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1374	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1375	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1376	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1377	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1378	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1379	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1380	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1381	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1382	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1383	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1384	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1385	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1386	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1387	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1388	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1389	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1390	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1391	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1392	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1393	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1394	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1395	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1396	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1397	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1398	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1399	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---
1400	ASTROLOY	---	---	C-0078	US	---	---	WROUGHT FORMS	---

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION,WEIGHT PERCENT=====															
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CASEBOM	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDEUM	TUNGSTEN	NIOBIUM	TITANIUM	ALUMINUM	BORON	IRON
AL5-B-C015-5-CR15-FE0-5-M05-MI-7-TI2-25	1352 AFNR MK 20 COAT		0.15	1.0 MAX.	1.0 MAX.	14-16	BAL. (54.7)	17-20	4.5-5.5			3.75-4.75	2.75-3.75	0.10 MAX.	1.0 MAX.
AL5-CR10-M07-5-MI/BAL69-4-TI4-25-M4-9	1353 GOST IE1766A		0.47	0.90	0.40	9-11	BAL. (69.4)		5-10	4.5-5.3		3.8-4.7	4.0		
AL5-3-6-C015-CR9-3-M03-25-NI/BAL58-2-TI3-3-M5-35-ZR0-03	1354 RENE 85		0.27			9-3	BAL. (58.9)	15	3.25	5.35		3.3	5.3	0.015	
AL5-4-B-C014-5-CR11-FE0-5-M06-5-MI/CB0-5-MI/BAL56-2-TI2-5-M1-5	1355 SEL 15		0.07	0.3 MAX.	0.5 MAX.	11	BAL. (56.2)	14.5	6.5	1.5	0.5	2.5	5.4	0.015	0.5 MAX.
AL5-5-B-C05-CR6-M02-M02/CB1-MI/BAL65-2-TA8-TI1-M5-5-ZR0-03-REL	1356 TRM NASA IV-Y		0.15			6-0	BAL. (65.2)	5.0	2.0	5.5	1.0	1.0	5.4	0.02	
AL5-4-6-C07-5-CR6-1-M02-HF0-43-MB/CB8-5-MI/BAL62-RH0-3-TA9	1357 TRM NASA VI A		0.13			6-1	BAL. (62)	7-5	2-0	5-5	0-5	1.0	5-4	0.02	
AL5-5-8-C010-CR10-M03-MI/BAL66-2-TI5-25-ZR0-04	1358 UCAR ALLOY R1914 (C)		LAP			10	BAL. (66.2)	10	3-0			5-25	5-50	0.10	
AL5-5-8-C010-CR8-25-FE0-5-HF1-5-M04-7-MI/BAL73-5-ZR0-05	1359 M-M 0011 ALLOY (M4247)		0.15	0.20 MAX.	0.20 MAX.	8-25	BAL. (73-5)	10	0.70	10		1-0	5-5	0-015	0.50
AL5-5-8-C010-CR9-FE0-2-HF1-5-M00-25-MI/BAL59-5-TA2-5-TI1-5-M10	1363 BS 3166/3 VMA 15 (C)		0.13-0.17	0.20 MAX.	0.20 MAX.	9-5	BAL. (65-7)	10	2-5			4-65	5-5	0-015	0.5 MAX.
AL5-5-8-C010-CR9-FE0-5-M02-5-MI/BAL59-5-TA1-5-TI1-5-M10	1365 BS 3166/3 VMA 15 (C)		0.12-0.17	0.20 MAX.	0.20 MAX.	8-10	BAL. (59-5)	9-11	0-50 MAX.	9-11		1-25-1.75	5-25-5.75	0.01-0.02	0.5 MAX.
AL5-5-8-C010-CR9-FE0-5-HF1-5-M00-25-MI/BAL69-2-TA2-5-TI1-5-ZR0-06	1364 M-M 002 ALLOY (CAST)		0.13-0.17	0.20 MAX.	0.20 MAX.	8-10	BAL. (69-2)	9-11	0-50 MAX.	9-11	ZR0-01-0.13	1-25-1.75	5-25-5.75	0.01-0-02	1.0 MAX.
AL5-5-8-C010-CR9-FE0-5-M02-5-MI/BAL59-5-TA1-5-TI1-5-M10	1365 BS 3166/3 VMA 14 (C)		0.12-0.17	0.20 MAX.	0.20 MAX.	8-10	BAL. (59)	9-11	2-25-2.75	9-11		1-25-1.75	5-25-5.75	0.01-0-02	1.0 MAX.
AL5-5-8-C010-CR9-FE1-M02-5-MI/BAL59-TA1-5-TI1-5-M10-ZR0-05	1366 MERKSTOFF 2.4676 LM		0.13-0.17	0.20 MAX.	0.20 MAX.	8-10	BAL. (59)	9-11	2-25-2.75	9-11		1-25-1.75	5-25-5.75	0.01-0-02	1.0 MAX.
AL5-5-8-C010-CR9-M02-5-MI/BAL59-2-TA1-5-TI1-5-M10-ZR0-05	1367 MAR-M ALLOY 246(CAST)		0.13-0.17	0.20 MAX.	0.20 MAX.	8-10	BAL. (59-7)	9-11	2-25-2.75	9-11		1-25-1.75	5-25-5.75	0.01-0-02	1.0 MAX.
AL5-5-8-C015-CR10-M03-MI/BAL60-TI4-7-ZR0-06	1369 GIV2HL-12 (CAST)		0.17			9-5	BAL. (60-6)	15	3-0			5-0	5-5		
AL5-5-8-C015-CR9-M02-5-MI/BAL59-2-TA1-5-TI1-5-M10-ZR0-05	1370 UCAR ALLOY IM-100 (C)		0.18			9-5	BAL. (60-6)	15	3-0			4-7	5-5	0.014	
AL5-5-8-C015-CR9-M02-5-MI/BAL59-2-TA1-5-TI1-5-M10-ZR0-05	1371 VAKUMELT ATS 391-G (CAST)		0.18			9-5	BAL. (60-6)	15	3-0			4-8	5-5		1.0 MAX.
AL5-5-8-C015-CR9-M02-5-MI/BAL59-2-TA1-5-TI1-5-M10-ZR0-05	1372 ATS 391-G (CAST)		0.15-0.20	0.10 MAX.	0.10 MAX.	10	BAL. (60)	15	3-0			4-7	5-5	0.015	1.0 MAX.
AL5-5-8-C015-CR9-M02-5-MI/BAL59-2-TA1-5-TI1-5-M10-ZR0-05	1373 IM 100 (CAST)		0.15-0.20	0.10 MAX.	0.10 MAX.	8-11	BAL. (67-8)	13-17	2-4			4-5-5.0	5-6	0.01-0-02	1.0 MAX.
AL5-5-8-C015-CR9-5-FE0-5-M03-MI/BAL60-3-TI4-2-V1-ZR1	1376 RENE 100		0.2			9-10	BAL. (60.3)	14-16	2.7-3.3			4-0-4.4	5-3-5.7	0.02	1.0 MAX.
AL5-5-8-C020-CR16-M02-5-MI/BAL47-6-TI2-5-M5-5-ZR0-2	1377 COSINT 1000		0.30			16	BAL. (67-8)	20	2-5	5-5		2-5	5-5	0.10	
AL5-5-8-CR10-M03-MI/BAL33-9-TI5-3-ZR0-02	1378 B-1914		LAP			10	BAL. (33.9)	10	3-0			5-3	5-5	0.10	

LINE	ALLOY NAME OR ALLO DESIGNATION	COMMON NAME OR ALLO DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
1352	AFNOR NK 20 COAT	1352 AFNOR NK 20 COAT		STD.	FR	NI-P 61-MT		BA+FC	GAS TURBINE PARTS.
1353	COSTIETI766A	1353 COSTIETI766A		STD.	UR			MROUGHT ALLOY	
1354	RENE 85	1354 RENE 85		C-0078	US				COMPRESSOR DISC ALLOY.
1355	SEL 15	1355 SEL 15		C-0078	US			INVESTMENT CASTINGS	HIGH-STRENGTH PARTS.
1356	TRN NASA IV-Y	1356 TRN NASA IV-Y		C-0075	US			CASTINGS	TURBINE BLADES.
1357	TRN NASA VI A	1357 TRN NASA VI A		C-0075	US				BLADE ALLOY.
1358	UCAR ALLOY B1314	1358 UCAR ALLOY B1314		C-0161	UK			CASTINGS	HOT END TURBINE PARTS, BLADES, ROTOR WHEELS.
1359	WILLI ALLOY	1359 WILLI ALLOY		C-0069	US			INVESTMENT CASTINGS	GAS TURBINE BLADES.
1360	MAR-N ALLOY 247(CAST)	1360 MAR-N ALLOY 247(CAST)		C-0069	US			INVESTMENT CASTINGS	GAS TURBINE BLADES.
1361	WILLI ALLOY	1361 WILLI ALLOY		C-0161	UK			BA+CASTINGS	MODIFICATION OF IN-100.
1362	IN-731	1362 IN-731		C-0067	US			INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1363	BS 3146/3 VNA 15	1363 BS 3146/3 VNA 15		STD.	UK	BS 3146/PT.3		INVESTMENT CASTINGS	GAS TURBINE BLADES.
1364	N-M 002	1364 N-M 002		C-0069	US			INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1365	BS 3146/3 VNA 14	1365 BS 3146/3 VNA 14		STD.	UK	BS 3146/PT.3		INVESTMENT CASTINGS	GAS TURBINE BLADES.
1366	NERKSTOFF 2.4676 LN	1366 NERKSTOFF 2.4676 LN		STD.	GY	2.4676 LN		INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1367	MAR-N ALLOY 246(CAST)	1367 MAR-N ALLOY 246(CAST)		C-0069	US			INVESTMENT CASTINGS	GAS TURBINE BLADES.
1368	VNA 14	1368 VNA 14		C-0065	UK	MSRR 7061		INVESTMENT CASTINGS	JET ENGINE BLADES.
1369	AMS 5397	1369 AMS 5397		STD.	US			INVESTMENT CASTINGS	JET ENGINE PARTS.
1370	AMS 5397	1370 AMS 5397		STD.	US			INVESTMENT CASTINGS	CAST ALLOY
1371	VAKUNELT A15	1371 VAKUNELT A15		C-0161	UK			INVESTMENT CASTINGS	CASTINGS FOR REMELT
1372	ATS 391-C	1372 ATS 391-C		C-0151	GY	2.4676 LN		INVESTMENT CASTINGS	GAS-TURBINE BLADES.
1373	IN 100	1373 IN 100		C-0067	US	AMS 5397		INVESTMENT CASTINGS	GAS-TURBINE BLADES.
1374	AMS 5397	1374 AMS 5397		STD.	US			INVESTMENT CASTINGS	JET ENGINE BLADES, WHEELS.
1375	BS 3146/3 VNA 12	1375 BS 3146/3 VNA 12		STD.	UK	BS 3146/PT.3		INVESTMENT CASTINGS	TURBINE BLADES, HIGH STRENGTH.
1376	RENE 100	1376 RENE 100		C-0078	US			INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1377	COSTY 1000	1377 COSTY 1000		---	US			POUNDER NET-ALLOY, MROUG	GAS TURBINE BLADES TO 1900F/1036C.
1378	B-1914	1378 B-1914		C-0164	US			INVESTMENT CASTINGS	TURBINE BLADES.
1379	AMS 5397	1379 AMS 5397		---	US			INVESTMENT CASTINGS	GAS TURBINE BLADES AND COMPONENTS.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
AL5-5-C010-CR9-FE0.25-MO2.5-NI7-BAL49.7-Ti1.5-Ti1.5-M10															
1379 VAKONELT ATS 381-G(C)		C-NICO 10 M 10 CRAL 0.15				9.0	BAL. (49.7)	10	2.5	1.0		1.5	5.5		0.5 MAX. 0.5 MAX.
1380 ATS 381-C (CAST)						9.0	BAL. (49.7)	10	2.5	1.0		1.5	5.5		
AL5-5-C015-CR10-NI7-BAL60.6-Ti1.7-V1-ZR0.06						9.5	BAL. (60.6)	15	3			4.7	5.5	0.015	1.0 MAX.
1381 9S 3146/3 VNA 12 (C)		PMA 66.8-IN-100-MIN.	0.17	0.2 MAX.	0.2 MAX.	1.0	BAL. (60.6)	15	3.0			4.7	5.5		
1382 7TG NR		IN 100	0.18			1.0	BAL. (60.6)	15	3.0			4.7	5.5		
1383 AFNR NK 15 CAT(CAST)		IN 100	0.18			1.0	BAL. (60.6)	15	3.0			4.7	5.5		
AL5-5-C015-CR9.5-MO3-NI61-Ti1.7-V1						9.5	61	15	3.0			4.7	5.5		
1384 9S 3146/3 VNA 12 (C)		NIMOCAST PK24	0.17			1.0	BAL. (61)	15	3.0			4.6	5.5		
1385 3S 3146/3 VNA 12 (C)		NIMOCAST PK 24,IN 100	0.17			8-10	BAL. (61)	13-17	2-4			4.5-5.0	5.0-6.0	0.010-0.020	1.0 MAX.
1386 EN2233(PRI), 2-4674 LN		NIMOCAST PK 24,IN 100 0.15-0.20	0.17	0.2 MAX.	0.2 MAX.	8-10	BAL. (61)	13-17	2-4			4.5-5.0	5.0-6.0		
CR25.3-FE/BAL53.1-NB/CB1.57-NI22.1						15	BAL. (57)	20	5.0			1.75	5.75		
1387 NIMONIC ALLOY 110		NIMONIC 110	0.15												
AL5-9-8-C00-02-C012-CR9.5-FE1.5-MO7.31-NI7-BAL57.2-M6.7						8.5-10.5	BAL. (57.2)	11-13	6.5-8.0	6.0-7.5			5.4-6.2	0.12 MAX. 1.5 MAX.	
1388 C05TEP109		EP109	0.10 MAX.	0.30 MAX.	0.6 MAX.	8.5-10.5	BAL. (57.2)	11-13	6.5-8.0	6.0-7.5			5.4-6.2		
1389 GIKM56NKYU		EP109	0.10 MAX.	0.30 MAX.	0.6 MAX.	8.5-10.5	BAL. (57.2)	11-13	6.5-8.0	6.0-7.5			5.4-6.2		
AL5-9-8-C00-01-CR5.5-FE0.1-MO2-NB/CB1.5-NI7-BAL73.7-Ti10.005-M11-ZR0.						5.5	BAL. (73.7)	0.1	2.0	11.0	1.5	0.005	5.9	0.07	0.1
1390 UGAR ALLOY M-21			0.12	0.01	0.05										
AL5-9-8-C00-075-CR5.75-FE0.25-MO2-NB/CB1.5-NI7-BAL03.6-Ti10.25-ZR0.13						5.0-6.5	BAL. (83.6)	1.5 MAX.	1.5-2.5	10-11	1-2	0.5 MAX.	5.6-6.2	0.015-0.025 0.5 MAX.	
1391 VAKONELT ATS 281-G (CAST)		ALLOY M 21	0.06-0.14	0.5 MAX.	0.50 MAX.	5.0-6.5	BAL. (83.6)	1.5 MAX.	1.5-2.5	10-11	1-2	0.5 MAX.	5.6-6.2		
1392 ATS 281-G (CAST)		ALLOY M 21	0.06-0.14	0.5 MAX.	0.50 MAX.	5.0-6.5	BAL. (83.6)	1.5 MAX.	1.5-2.5	10-11	1-2	0.5 MAX.	5.6-6.2		
AL5-9-8-CR12.4FE0.5-MF1.3-MO4.5-NB/CB2-NI7-BAL73.8						11-13	BAL. (73.8)		3.8-5.2		1.5-2.5	0.4-1.0	5.5-6.5	0.005-0.015 0.50 MAX.	
1393 M-M 004 ALLOY (CAST)		M-M 004 ALLOY	0.03-0.07	0.25 MAX.	0.50 MAX.										
AL5-9-8-CR12.4FE0.5-MO4.5-NB/CB2-NI7-BAL73.6-Ti10.6-ZR0.1						12.0	BAL. (73.6)		4.5		2.0	0.6	5.9	0.01	
1394 UGAR ALLOY 713LC (C)		ALLOY 713LC	0.05												
1395 ALLOY 713LC (CAST)		ALLOY 713LC	0.05	0.25 MAX.	0.50 MAX.	12.0	BAL. (73.6)		4.5		2.0	0.6	5.9	0.01	0.5 MAX.
1396 INCONEL 713LC (CAST)		ALLOY 713LC	0.05	0.25 MAX.	0.50 MAX.	12.0	BAL. (73.6)		4.5		2.0	0.6	5.9	0.003-0.010 0.5 MAX.	
1397 BS 3146/3 VNA 6 C (C)		ALLOY 713LC	0.05	0.25 MAX.	0.25 MAX.	12	BAL. (73.6)	1.0 MAX.	4.5		2.0	0.7	6.0	0.01	0.5 MAX.
AL5-9-CR12.4FE0.25-MO4.5-NB/CB2-NI7-BAL74.5-Ti10.6						12	BAL. (74.5)		4.5		2.0	0.6	5.9		0.5 MAX.
1398 AMS 5880 (CAST)		WAMES ALLOY NO. 30	0.40-0.50	1.0 MAX.		12	BAL. (74.5)		4.5		2.0	0.6	5.9		0.5 MAX.
1399 ATS 290 LC-C (CAST)			0.05			12	BAL. (74.5)		4.5		2.0	0.6	5.9		0.5 MAX.
AL5-8-C010-CR10-MO4-NI7-BAL65.8-Ti5-ZR0.12						10	BAL. (65.8)	10	4.0			5.0	0.015		
1400 EPK 36 *		(CAST) EPK 36 *	0.10												
AL5-8-C010-CR10-MO4-NI7-BAL70.8-ZR0.12						10	BAL. (70.8)	10	4.0			5.0	0.015		
1401 NIMOCAST PK36 (CAST)		NIMOCAST PK36	0.10												
AL5-8-C010-CR9-MO2.5-NB/CB2.7-NI7-BAL63-Ti2-M5.5-ZR0.05						9.0	BAL. (63)	10	2.5	5.5	2.7	2.0	5.0	0.015	
1402 MAR-M ALLOY 211(CAST)		MAR-M 211	0.15												
AL5-8-C010-CR9-NE/CB1-NI7-BAL60.3-Ti2-M12.5-ZR0.05						9.0	BAL. (60.3)	10	0.5 MAX.	10	HF 1.4	1.5	5.5	0.015	0.5 MAX.
1403 BS 3146/3 VMA 15 (C)		MAR-M 200	0.15	0.2 MAX.	0.2 MAX.	8-10	BAL. (60.3)	9-11		11.5-13	0.75-1.25	1.75-2.25	4.75-5.25	0.01-0.02 1.5 MAX.	
1404 MAR-M ALLOY 200(CAST)		MAR-M 200	0.12-0.17	0.20 MAX.	0.20 MAX.										
AL5-8-C014-9-CR15-MO3.8-NI7-BAL57.4-Ti13.9						14.2-15.8	BAL. (57.4)	14.3-15.5	3.3-4.0			3.5-4.3	4.6-5.4	0.01-0.04	
1405 AFNR N-CK15AT0			0.10-0.20	0.15 MAX.	0.20 MAX.										
AL5-8-C015-CR10-MO2.5-BAL/Ni61.1-Ti5.2-M1.25						10	BAL. (61.1)	15	2.5	1.25		5.2	5.0	BORON +	
1406 G-84 (CAST)		G-84	0.14			10	BAL. (61.1)	15	2.5	1.25		5.2		BORON +	
1407 JESSOP-SAVILLE G-84 (C)		G-84	0.14												
AL5-8-CR15.5-FE2.5-NI7-BAL75.3-Ti11.7						15.5	BAL. (75.3)			8.5		1.7	5.0	0.01 MAX. 5.0 MAX.	
1408 ANV-300 (CAST)			0.10 MAX.												
AL5-8-CR15-FE5-NOS-NI7-BAL68.7						15	BAL. (68.7)		5.0				5.0	0.3	5.0
1409 F-342		F-342	0.15	0.40	0.40										

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP 71 - NICKEL-BASE ALLOYS (Continued)									
AL5.5-C010-CR9-FE0.25-NI0.5-NI/BAL49.7-TA1.5-Ti1.5-M	1370 VAKUNELT ATS 381-C (CAST)	C-NI00 10 M 10 CRALY	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1381 BS 3146/3 VNA 12 (C)	PA 65 IN-100NIN.	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1382 ATC N2	IN 100	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1383 AFNOR NK 15 CAT (CAST)	IN 100	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1384 BS 3146/3 VNA 12 (C)	PA 65 IN-100NIN.	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1385 BS 3146/3 VNA 12 (C)	PA 65 IN-100NIN.	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.5-C015-CR10-NI0.3-NI/BAL60.6-Ti1.7-V1-ZR0.06	1386 EN2331PRI-2-4676 LN	NINOCAT PK 24, IN 100	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
CR25.3-FE/BAL53.1-NI0.57-NI22.1	1387 NINONIC ALLOY 110	NINONIC 110	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1388 GOST EP109	EP109	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1389 GIKHNS6VHKYU	EP109	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1390 UCAR ALLOY N-21	NINOCAT PK 24, IN 100	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1391 VAKUNELT ATS 281-C (CAST)	ALLOY N 21	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1392 ATS 281-C (CAST)	ALLOY N 21	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1393 M-N 884 ALLOY (CAST)	N-N 884 ALLOY	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1394 UCAR ALLOY 713LC (C)	ALLOY 713LC	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1395 ALLOY 713LC (C)	ALLOY 713LC	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1396 VAKUNELT 713LC (CAST)	ALLOY 713LC	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1397 BS 3146/3 VNA 6 C (C)	ALLOY 713LC	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1398 ANS 5300 (CAST)	HAYNES ALLOY NO. 30	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1399 ATS 290 LC-G (CAST)	---	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1400 EPK 36 * (CAST)	EPK 36 *	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1401 NINOCAT PK 36 (CAST)	NINOCAT PK36	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1402 NAR-N ALLOY 211 (CAST)	NAR-N 211	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1403 BS 3146/3 VNA 15 (C)	NAR-N 200	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1404 NAR-N ALLOY 200 (CAST)	NAR-N 200	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1405 AFNOR N-CK15A10	---	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1406 BS 3146/3 VNA 15 (C)	NAR-N 200	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1407 JESSOP-SAVILLE 6.04 (C)	6.04	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1408 ANV-300	---	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.
AL5.9-B-CR9-CR0.25-NI0.5-NI/BAL57.2-4-M6.	1409 F-342	F-342	TA1.5	C-0151	GY	2-4676 LN	N13100	INVESTMENT CASTINGS	CAS-TURBINE BLADES.

TABLE 2. (Continued)

ALLOY NAME OR LINE ALLOY DESIGNATION		COMMON NAME OR DESIGNATION		PERCENTS CHEMICAL COMPOSITION WEIGHT											IRON	
AL5-B-CR9-NB/CB1-NI/TI2-M12.5-ZR0.02 1410 B-1950		LAP		GROUP IV - NICKEL-BASE ALLOYS (Continued)											0.12	
AL5-DE0.1-CR11-MO4.1-NI/BAL78.4-TI0.5-V0.9 1411 G12V38-11		(CAST)		BAL. (78.4)											0.5	
AL5-C013.2-CR14.2-MO4-NI59-TI4 1412 NIMONIC ALLOY 115		NIMONIC 115		59											0.010-0.025	
1413 ALLVAC 115		NIMONIC 115		BAL. (59)											0.010	
1414 M 115		NIMONIC 115		BAL. (59)											0.010	
1415 BS HR 4		NIMONIC 115		BAL. (59)											0.010	
1416 AECMA NI-P 102-MT		NIMONIC 115		BAL. (59)											0.010	
1417 OIN NIGOR 15 MOALTI		NIMONIC 115		BAL. (59)											0.010	
1418 WERKSTOFF 2.4.636 LN		NIMONIC 115		BAL. (59)											0.010	
AL5-C019.5-CR11-FE2-MO5-NI/BAL54.7-TI1.5 1419 NIMONIC ALLOY 100 *		NIMONIC 100 *		BAL. (54.7)											2.0 MAX.	
AL-CR10-FE15-MO3-NI/BAL56.M5 1420 GOSTEP404		EP404		BAL. (56)											14-16	
1421 G14M59HYU		EP404		BAL. (56)											14-16	
AL5-CR11-MO5-NI/BAL77-TI2 1422 NIMONIC ALLOY 58 (C)		NIMONIC 58		BAL. (77)											2.0	
AL5-CR17.5-NI69-TI2 1423 GOSTIE666A		EI666A		60 MIN.											4-6	
AL5-B-CR12.5-FE2.5-MO4.2-NB/CB2-NI/BAL70.9-TI0.8-ZR0.1 1424 35 3146/3 VAA 6A (C)		ALLOY 713C-NI-MOCAST		BAL. (70.9)											0.01	
1425 ATG 59		INCONEL 713C		BAL. (70.9)											2.0 MAX.	
1426 AFNOR MC 13 A0		INCONEL 713C		BAL. (70.9)											2.0 MAX.	
1427 AECMA NI-C 98-MT		INCONEL 713C		BAL. (70.9)											2.0 MAX.	
1428 INCONEL 713C (CAST)		ALLOY 713C		BAL. (70.9)											0.12	
1429 UCAR ALLOY 713C (C)		ALLOY 713C		BAL. (70.9)											0.012	
1430 VAKUMLIT ATS 590-61(C)		G-NICK 13 AL 6 HOMB		BAL. (70.9)											1.0 MAX.	
1431 ATS 590-61 (C)		G-NICK 13 AL 6 HOMB		BAL. (70.9)											1.0 MAX.	
1432 INCONEL 713C (CAST)		ALLOY 713C		BAL. (70.9)											0.005-0.015	
1433 ALLOY 713C (C)		ALLOY 713C		BAL. (70.9)											0.005-0.015	
1434 AMS 5391		ALLOY 713C		BAL. (70.9)											0.005-0.015	
1435 HAYNES ALLOY NO 713C		ALLOY 713C		BAL. (70.9)											0.005-0.015	
AL6.1-C08.5-CR11.25-MO4.5-NI/BAL64.6-TI2.6-M3.5 1436 G1114		(CAST) EI857		BAL. (64.6)											5.5-6.0	
AL6.2-B-C010-CR9.5-MO4-NB/CB4-NI/BAL62.2-M4 1437 G.94		(CAST) G.94		BAL. (62.2)											6.2	
1438 JESSOP-SAVILLE G.94		G.94		BAL. (62.2)											6.2	
AL6.25-B-CR17-FE0.15-MO1.5-NB/CB1-NI/BAL76-TA2-TI0.12-M2-ZR0.1 1439 PORL-163		(CAST) IM 163		BAL. (70)											0.020	
AL6.3-B-C010-CR10.3-MO4-NB/CB1.5-NI/BAL60.2-TA0.5-TI6.3-V0.5 1440 TRM 400 1300		TRM 400 1300		BAL. (60.2)											0.03	
AL6.3-B-C010-CR10.3-MO4-NB/CB1.5-NI/BAL60.4-TA0.5-TI1.0-V0.5-M9 1441 TRM 2279		(CAST)		BAL. (60.4)											0.03	
AL6.3-B-C010-CR10.3-MO4-NB/CB1.5-NI/BAL60.7-TA0.5-TI6.3 1442 TRM 1300		(CAST) TRM 1300		BAL. (61.7)											0.03	
AL6.3-B-C010-CR10.3-MO4-NB/CB1.5-NI/BAL61.7-TA0.5-TI1.0-V0.5-M9 1443 TRM NASA I-5		NIMONIC 115		BAL. (61.7)											0.02	
AL6.3-B-C09-CR17-MO2-NB/CB1-NI/BAL60.1-TA2-TI0.5-M2-ZR0.1 1444 IH 728		(CAST)		BAL. (60.1)											0.02	
AL6.3-CR5.7-MO2-NI/BAL71.3-TA3-M11 1445 M-22		(CAST) M-22		BAL. (71.3)											6.3	

TABLE 2. (Continued)

GROUP IV - NICKEL-BASE ALLOYS (Continued)									
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL5-B-CR9-NB/CB1-NI/BAL60.4-T12-M12.5-ZR0.02 1410 8-1950	(CAST)		ZR0.2	C-0164	US			INVESTMENT CASTINGS	CAS TURBINE BLADES AND COMPONENTS.
AL5-CE0.1-CR11-M04.1-NI/BAL70.4-T10.5-V0.9 1411 61V2N36-11	(CAST)		V0.7-1.1-CE0.01	STO.	UR			INVESTMENT CASTINGS	UNKNOWN.
AL5-C013.2-CR14.2-M04-N159-T14 1412 NIMONIC ALLOY 115 1413 ALLVAC 115 1414 N 115 1415 BS NR 4 1416 AECMA NI-P 102-MT 1417 OIM MICOR 15 M0ALTI 1418 MERKSTOFF 2.4636 LN	NIMONIC 115 NIMONIC 115 NIMONIC 115 NIMONIC 115 NIMONIC 115 NIMONIC 115 NIMONIC 115 NIMONIC 115		ZR0.25 MAX+CU0.2 MAX. ZR0.045	C-0074 C-0008 C-0074 STO. STO. STO. STO.	UK US US US FR CY	BS NR 4 BS NR 4 BS NR 4 BS NR 4 NIP102-MT NIDGR15H0AL 2.4636 LN		BA-ROD BI-BA+FC+MO PARTS MROUGHT ALLOY MROUGHT ALLOY MROUGHT ALLOY MROUGHT ALLOY MROUGHT FORMS	CAS TURBINE BLADES, T011796F/980C. HARDWARE FOR JET ENGINES AND TURBINE BLADES. CAS TURBINE BLADES T011796F/980C. CAS TURBINE BLADES T011796F/980C. CAS TURBINE BLADES T011796F/980C.
AL5-C019.5-CR11-FE2-M05-MI/BAL54.7-T11.5 1419 NIMONIC ALLOY 100 *	NIMONIC 100 *			C-0074	UK			MROUGHT FORMS	CAS TURBINE ROTDR BLADES, T011832F/1000C.
AL-CR10-FE15-M09-NI/BAL56.M5 1420 GOSTIEP404 1421 GIKHNS5M9VU	EP404 EP404			STO. STO.	UR UR			MROUGHT ALLOY MROUGHT ALLOY	
AL5-CR11-M05-NI/BAL77-T12 1422 NIMONIC ALLOY 58 (C)	NIMONIC 58			C-0074	UK			INVESTMENT CASTINGS	JET ENGINE AND CAS TURBINE PARTS.
AL5-CR17.5-MI60-T12 1423 GOSTIEI666A	E1666A			STO.	UR			MROUGHT ALLOY	
AL6.1-B-CR12.5-FE2.5-M04.2-NB/CB2-NI/BAL70.9-T10.8-Z 1424 BS 3146/3 VMA 6A (C) 1425 ATC S9 1426 AFNOR NC 13 A0 1427 AECMA NI-C 98-MT 1428 INCODEL 713C 1429 INCODEL 713C (CAST) 1430 UGAR ALLCT 713C (C) 1431 ATS 290-G AT5 290-G (CAST) 1432 NAYVES NO 713C (CAST) 1433 ALLOY 713C (N1, (CAST) 1434 AMS 5391 (CAST) 1435 MAYMES ALLOY NO 713C	CU0.5 MAX-ZR0.1-S0.015MAX. INCODEL ALLOY 713C INCODEL ALLOY 713C INCODEL ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C ALLOY 713C		ZR0.10 ZR0.10 ZR0.05-0.15-S0.015MAX. CU0.5MAX-ZR0.05-0.15-S0.015 ZR0.05-0.15-S0.015 MAX.	C-0065 C-0102 STO. STO. C-0067 C-0161 C-0151 C-0151 C-0151 C-0067 STO. C-0068	UK FR FR FR US UK CY CY US US US US	NC 13 A0 NI-C 98-MT NC 13 A0 AMS 5391 2.4670 LN 2.4670 LN AMS 5391 AMS 5391 AMS 5391 AMS 5391		INVESTMENT CASTING STK MROUGHT FORMS MROUGHT FORMS MROUGHT FORMS CASTINGS BA-CASTINGS INVESTMENT CASTINGS INVESTMENT CASTINGS INVESTMENT CASTINGS INVESTMENT CASTINGS INVESTMENT CASTINGS INVESTMENT CASTINGS	JET ENGINE PARTS. JET ENGINE BLADES AND PARTS. JET ENGINE BLADES AND PARTS. JET ENGINE BLADES AND PARTS. CAS TURBINE BLADES, STATORS AND ROTORS. TURBINE BLADES-CAS-TURBINE WHEELS-SUPERCHARGERS TURBINE BLADES-CAS-TURBINE WHEELS-SUPERCHARGERS CAS TURBINE BLADES, PARTS. JET ENGINE BLADES, PARTS. TURBINE BLADES, STRENGTH T011800F/982C. CAS TURBINE BLADES.
AL6.1-CD0.5-CR11.25-M03.5-NI/BAL64.6-T12.6-M1.5 1436 GIL114	(CAST)			STO.	UR			CAS ALLOY	
AL6.2-B-CD10-CR9.5-N04-NB/CB4-NI/BAL62.2-M4 1437 G-94 1438 JESSOP-SAVILLE C-94 C-94	ZIRCONIUM + ZIRCONIUM			C-0147 C-0147	UK UK			INVESTMENT CASTINGS INVESTMENT CASTINGS	CAS TURBINE PARTS. CAS TURBINE ROTDRS AND BLADES, TURBO BLOWERS.
AL6.25-B-CR17-FE0.15-M01.5-NB/CB1-MI/BAL70-TA2-T10.1 1439 PORL-163	TA2, ZR0.10		TA2, ZR0.10	C-0079	US			CASTINGS	TURBINE BLADES.
AL6.3-B-CD10-CR10.3-HF0.5-NB/CB1.5-MI/BAL60.2-TA0.5, 1440 TRM MOD 1900 (CAST) TRM MOD 1900	ZR0.13-TA0.5-NF0.5-V0.5		ZR0.13-TA0.5-NF0.5-V0.5	C-0075	US			INVESTMENT CASTINGS	CAS TURBINE BLADES.
AL6.3-B-CD10-CR10.3-HF0.5-NB/CB1.5-MI/BAL60.4-TA0.5, 1441 TRM 2270	TA0.5-V0.5-ZR0.1-NF0.5		TA0.5-V0.5-ZR0.1-NF0.5	C-0075	US			CASTINGS	TURBINE BLADES.
AL6.3-B-CD10-CR10.3-NB/CB1.5-NI/BAL60.7-TA0.5-T16.3 1442 TRM 1900	ZR0.10		ZR0.10	C-0075	US			INVESTMENT CASTINGS	CAS TURBINE BLADES.
AL6.3-B-CD10-CR10.3-N01-NI/BAL61.7-TA4.5-T11.5-5-ZR0. 1443 TRM NASA 1-5	TA4.5-ZR0.03		TA4.5-ZR0.03	C-0075	US			MROUGHT FORMS	TURBINE BLADES.
AL6.3-B-C09-CR17-M02-NB/CB1-NI/BAL60.1-TA2-T10.5-M2, 1444 IN 720	TA2, ZR0.1		TA2, ZR0.1	C-0067	US			CASTINGS	TURBINE BLADES.
AL6.3-CK5.7-M02-NI/BAL71.3-TA3-M11 1445 N-22	TA3, ZR0.6		TA3, ZR0.6	C-0086	UK			INVESTMENT CASTINGS	CAS TURBINE PARTS.

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION, WEIGHT PERCENT=====													
ALLOY NAME OR LIME ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL GROUP IV - NICKEL-BASE ALLOYS (Continued)	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM COLUMBIUM	TITANIUM	ALUMINUM	IRON
AL 6.4-B-CR10-PE0.05-MG0.02-MO4-MB/CB1-NI/BAL72-4-TA2-Ti0.9-M2-ZR0.12 IN-162 1446 PORL-162 (CAST) IN 162		0.12 0.12	0.20 MAX. 0.10 MAX.	0.30 MAX. 0.20 MAX.	10 10	BAL. (72.4) BAL. (72.4)		4.0 4.0	2.0 2.0	1.0 1.0	1.0 1.0	6.5 6.5	0.05 MAX. 0.5 MAX.
AL 6.5-B-CR14-MO4.5-MB/CB2-NI/BAL71.9-Ti1.2R0.12 1448 NIMOCST 713V (CAST) NIMOCST 713V		0.12			14	BAL. (71.9)		4.5		2.0	1.0	6.5	0.01
AL 6.5-CR5.5-FE0.75-MO2-NI/BAL61.6-TA3-ZR0.6 1449 UGAR ALLOY M-22		0.12	2.0		5.5	BAL. (81.6)		2.0	11.0			6.25	0.75
AL 6.5-NI/BAL73.3-M10.5-ZR1.5 1450 WAZ-20 (CAST) WAZ-20		0.15				AL. (73.3)			18.5			6.5	
AL 6.8-CO0.5-CR12-FE0.2-MO4.5-NB/CB2-NI/BAL70.5-Ti0.7-ZR0.1 1451 WERKSTOFF 2.4670 LM NIMOCST 713		0.03-0.07	0.25 MAX.	0.50 MAX.	11-13	BAL. (70.5)	1.0 MAX.	3.8-5.2		1.5-2.5	0.4-1.0	5.5-6.5	0.005-0.015 0.50 MAX.
AL 6.8-CO0.5-CR13-FE0.2-MO4-MB/CB2-NI/BAL69.7-Ti1.2R0.7 1452 SS 3146/3 VMA 6C (C) IN 713LC 1453 SS 3146/3 VMA 6B (C) IN 713C		0.03-0.07 0.08-0.20	0.25 MAX. 0.25 MAX.	0.25 MAX. 0.25 MAX.	11-14 12-14	BAL. (84) BAL. (84)	1.0 MAX. 1.0 MAX.	3.8-5.2 3.8-5.2	CU0.2M. CU0.2M.	1.5-2.5 +TA 1.8-2.8 +TA	0.4-1.0 0.5-1.2	5.5-6.5 5.5-6.5	0.005-0.015 0.5 MAX. 0.005-0.015 1.0 MAX.
AL 6.8-CO0.5-CR13-FE1.25-MO4-NB/CB2-NI/BAL72.7-Ti1.2R0.10 1454 SS 3146/3 VMA 6A (C) IN 713C		0.08-0.20	0.25 MAX.	0.50 MAX.	12-14	BAL. (72.7)	1.0 MAX.	3.8-5.2		1.8-2.8 +TA	0.5-1.2	5.5-6.5	0.005-0.015 2.5 MAX.
AL 6.8-CO0.5-CR13-FE1.5-CB/NB2.3-NI/BAL76-TA-Ti0.7-ZR0.15 1455 AFNOR N-C13A0 (CAST) INCONEL ALLOY 713C		0.08-0.20	0.25 MAX.	0.50 MAX.	12-14	BAL. (76)	1.0 MAX.	3.8-5.2		1.8-2.8 +TA	0.5-1.0	5.5-6.5	0.005-0.015 2.5 MAX.
AL 6.8-CO1.0-CR17-FE17.5-MO3.1-NB/CB6-NI/BAL50.5-Ti1.1-M2 1456 UGNET 630		0.04 MAX.	0.2 MAX.	0.2 MAX.	17	BAL. (50.5)	1.0 MAX.	3.1	3.0	6.0	1.1	0.6	0.005 17.5
AL 6.8-CO10-CR10-MO2.7-NI/BAL62.5-TA7.4-Ti1.25-ZR0.1 1457 M-3608 (CAST) MODIFIED B-1910		0.15			10	BAL. (62.5)	1.0	2.7			1.25	6.0	0.015
AL 6.8-CO10-CR10-MO3-NI/BAL62.8-TA7-Ti1.2R0.1 1458 B-1910 (CAST) B-1910		0.10			10	BAL. (62.8)	1.0	3.0			1.0	6.0	0.015
AL 6.8-CO10-CR10-FE0.35-MO6-NB/CB0.1-NI/BAL63.5-TA6.3-Ti1.0-M2R0.7 1459 ROSS VAC 56 (CAST) 61908-PMF 1455 1460 B-1900 ALLOY (CAST) B-1900		0.1 0.10	0.2 MAX. 0.2 MAX.	0.25 MAX. 0.25 MAX.	8.0 9.0	BAL. (63.2) BAL. (63.5)	1.0 1.0	6.0 6.0	0.1 MAX. 0.1 MAX.	0.1 MAX. 0.1 MAX.	1.0 1.0	6.0 6.0	0.015 0.35 MAX. 0.015 0.35 MAX.
AL 6.8-CO15-CR10-FE0.5-MO3-NI/BAL60-Ti5-V1 1461 WERKSTOFF 2.4674 LN NIMOCST PK 24-IN 10		0.15-0.20	0.20 MAX.	0.20 MAX.	8-11	BAL. (60)	1.3-1.7	2-4			4.5-5.5	5-6	0.010-0.020 1.0 MAX.
AL 6.8-CO15-CR5-MO3.5-NI/BAL54.3-TA6-M6 1462 G-104 (CAST) G-104		0.08			5.0	BAL. (54.3)	1.5	3.5	8.0			6.0	0.10
AL 6.8-CO5-CR6-MO4-NB/CB1.5-NI/BAL64.4-TA6-M4-ZR1 1463 TA2-8B (CAST) TA2-8B		0.125			6.0	BAL. (64.4)	5.0	4.0	4.0	1.5		6.0	0.0004
AL 6.8-CR10-FE4.5-MO5-NI70.5-NB/CB2 1464 I-1360 (CAST) I-1360		0.10			10	70.5		5.0		2.0		6.0	4.5
AL 6.8-CR11-FE5-MO3-MB/CB2-NI/BAL62.5-M3.5 1465 JESSOP-SAVILLE G.64 C G.64 (C)		0.10			11	BAL. (62.3)		3.0	3.5	2.0		6.0	BORON + BAL. (5)
AL 6.8-CR12.5-FE2.5-MB/CB2.1-NI/BAL71.8-Ti0.6-ZR 1466 VIRGO 87B (CAST) INCONEL ALLOY 713		0.14			12.5	BAL. (71.8)		4.5		2.1	0.6	6.0	BORON + 2.5
AL 6.8-CR13-MB/CB1.5-NI/BAL69.7-Ti0.6-M9-ZR0.07 1467 TRN 1800 (CAST) TRN 1800		0.09			13	BAL. (69.7)			9.0	1.5	0.6	6.0	0.07
AL 6.8-CR15.5-FE4.2-MO5.2-NI/BAL66.6-Ti2.5 1468 NIMOCST 2350 (CAST) NIMOCST 2350		0.10-0.20	0.10 MAX.	0.3 MAX.	14-17	BAL. (66.6)		4.5-6.0			2-3	3.25-4.0	0.05-0.10 3.5-5.0
AL 6.8-CR5.7-FE0.25-MO2-MB/CB1.5-NI/BAL67.8-Ti0.25-M11-ZR0.012 1469 SS 3146/3 VMA 2(CAST) -----		0.06-0.14	0.50 MAX.	0.50 MAX.	5.0-6.5	BAL. (67.8)		1.5-2.5	10-11.5	1-2 +TA	0.50 MAX.	5.6-6.2	0.015-0.025 0.5 MAX.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL6-4-B-CR10-FE0.05, M60.02, M04, NB/CB1-NI/BAL72.4, TA2	IN-162	IN-162	V1, TA2, M60.02, ZR0.1	C-0067	US	NICKEL-BASE ALLOYS (Continued)	---	CASTINGS	GAS TURBINE BLADES, VANES, TURBINE BLADES.
1446	IN-162	IN-162	TA2+ZR0.10	C-0079	US	---	---	---	---
AL6-5-8-CR14, M04.5, NB/CB2, NI/BAL71.9, TI1, ZR0.12	1448	NIMOCAST 713V	ZR0.1	C-0074	UK	---	---	CASTING ALLOY	GAS TURBINE ROTOR BLADES, JET ENGINE PARTS.
AL6-5-CR5.5, FE0.75, M02, NI/BAL61.6, TA3, ZR0.6	1449	UCAR ALLOY N-22	ZR0.6, TA3	C-0161	UK	---	---	BA	---
AL6-5-NI/BAL73.3, M10.5, ZR1.5	1450	MA2-20	ZR1.5	C-0064	US	---	---	INVESTMENT CASTINGS	JET ENGINE OISCS.
AL6-8-C00.5-CR13, FE0.2, M04, NB/CB2, NI/BAL70.5, TI0.7	1451	NERKSTOFF 2.4670 LN	CU0.5H, ZR0.05-0.15	STD.	GY	2.4670 LN	---	INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-8-C00.5-CR13, FE0.2, M04, NB/CB2, NI/BAL70.5, TI1, ZR0.7	1452	BS 3146/3 VMA 6C (C) IN 713C	ZR0.05-0.15, S0.015 MAX.	STD.	UK	BS 3146/3 PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1453	BS 3146/3 VMA 6B (C) IN 713C	---	ZR0.05-0.15, S0.015 MAX.	STD.	UK	BS 3146/3 PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL6-8-C00.5-CR13, FE1.5, M03.1, NB/CB6, MI/BAL50.5, TI1.1, 1456	OUTMET 630	OUTMET 630	CU0.5H, ZR0.05-0.15, S0.015	STD.	UK	BS 3143/3 PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
1457	AFNOR N-C1340	INCONEL 713C	TA+	STD.	FR	NI-C 90-MT	---	CASTINGS	JET ENGINE PARTS.
AL6-8-C01, CR17, FE1.7, 5, M03.1, NB/CB6, MI/BAL50.5, TI1.1, 1456	OUTMET 630	OUTMET 630	---	C-0066	US	---	---	BA, SH	APPLICATIONS TO 11,000 F/538C.
AL6-8-C010, CR10, M02.7, NI/BAL62.5, TA7.4, TI1.25, ZR0.1	1457	M-3608	TA7.4, ZR0.1	---	US	---	---	CASTINGS	TURBINE BLADES.
AL6-8-C010, CR10, M03, MI/BAL62.8, TA7, TI1, ZR0.1	1458	B-1910	TA7.0	C-0092	US	---	---	INVESTMENT CASTINGS	MODIFIED B-1900.
AL6-8-C010, CR0, FE0.35, M06, NB/CB0.1, NI/BAL63.5, TA4.3, 1459	ROSS VAC 58	(CASTI) B1500, PMA 1455	ZR0.07, HF1.2, S0.015, P0.01	C-0065	UK	---	---	INVESTMENT CASTING STK	JET ENGINE PARTS.
1460	B-1900 ALLOY	(CASTI) B-1900	TA4.3, ZR0.08	C-0092	US	---	---	INVESTMENT CASTINGS	JET ENGINE BLADES.
AL6-8-C015, CR10, FE0.5, M03, NI/BAL60, TI5, V1	1461	NERKSTOFF 2.4670 LN	PER.002H, CU0.2H, S0.015 MAX.	STD.	GY	2.4674 LN	---	INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-8-C015, CR5, M03.5, NI/BAL54.3, TA8, M6	1462	G-104	TA8, ZR0.05	C-0147	UK	---	---	INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-8-C05, CR6, M04, NB/CB1.5, NI/BAL64.4, TA5, M6, ZR1	1463	TA2-88	ZR1, TA8	C-0064	US	---	---	INVESTMENT CASTINGS	TURBINE BLADES, VANES.
AL6-8-CR10, FE4.5, M05, NI70.5, NB/CB2	1464	I-1360	ZR0.30	C-0078	US	---	---	CASTINGS	TURBINE BLADES.
AL6-8-CR11, FE5, M03, NB/CB2, NI/BAL62.5, M3.5	1465	JESSOP-SAVILLE G.64 (C) G.64	---	C-0147	UK	---	---	INVESTMENT CASTINGS	GAS TURBINE ROTORS AND BLADES, TURBO BLOWERS.
AL6-8-CR12, 5, FE2.5, NB/CB2.1, NI/BAL71.8, TI0.6, ZR	1466	VIROGO 07B	ZR	C-0129	FR	---	---	CASTINGS	HIGH-HEAT AND CORROSION RESISTANCE.
AL6-8-CR13, NB/CB1.5, NI/BAL69.7, TI0.5, M6, ZR0.07	1467	TRN 1800	ZR0.07	C-0075	US	---	---	INVESTMENT CASTINGS	GAS TURBINE BLADES.
AL6-8-CR15.5, FE4.2, M05.2, NI/BAL66.6, TI2.5	1468	NIMOCAST 2350	AL + TI0.3 MAX.	C-0074	UK	---	---	CASTING ALLOY	JET ENGINE AND AEROSPACE EQUIPMENT PARTS.
AL6-8-CR5.7, FE0.25, M02, NB/CB1.5, MI/BAL67.8, TI0.25, NI	1469	BS 3146/3 VMA 21(CASTI)	ZR0.06-0.16, S0.015 MAX.	STD.	UK	BS 3143/3 PT.3	---	INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION=====																	
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	GROUP IV - NICKEL-BASE ALLOYS (Continued)				NIOBIUM			TITANIUM	ALUMINUM	BORON	IRON
							NICKEL	COBALT	NIOBDECIUM	TUNGSTEN	COLUMBIUM						
AL6-0-CR5-FE4-MO1.5-NB/CB2-NI/BAL66.6 1470 GE-8-129		GE-8-129	0.06	0.40	0.40	5.0	BAL. (66.6)		15		2.0		6.0		4.0		
AL6-8-CR6-MO2-NB/CB1.5-NI/BAL73.2-M11.2R0.12 1471 EPO 16 * 1472 MIMOCAST PD 16		(CAST) EPO 16 * MIMOCAST PD 16	0.12 0.12			6.0 6.0	BAL. (73.2) BAL. (73.4)		2.0 2.0		11 11	1.5 1.5	6.0		0.02 0.02		
AL6-8-CR6-MO4-MB/CB2.5-NI/BAL68.4-TA3-M4-ZR1 1473 TA2-8A		(CAST) TA2-8A	0.125			6.0	BAL. (68.4)		4.0		4.0	2.5	6.0		0.0004		
AL6-80-22-CR15.5-FE5-MO3-NI/BAL64.2-T11-M4-ZR 1474 G-67		(CAST) G-67	0.12	0.5	0.5	15.5	BAL. (64.2)		3.0		4.0		1.0	6.0	0.22	5.0 MAX.	
AL6-80-25-CR11-FE5-MO3-NB/CB2-NI/BAL62.3-M3.5 1475 G-64		(CAST) G-64	0.12	0.4	0.5	11	BAL. (62.3)		3.0		3.5	2.0	6.0		0.25	5.0 MAX.	
AL6-CR10-FE4.5-MO5-MB/CB2-NI70.5-ZR0.3 1476 I-1360		(CAST) I-1360	0.10			10	70.5		5.0			2.0	6.0			4.5	
AL6-CR11-MO3-NB/CB2-NI/BAL74.5-M3.5 1477 BS NC 201		(CAST)				11	BAL. (74.5)		3.0		3.5	2.0	6.0				
AL6-CR12-MO4.5-MI74-TI0.7 1478 MIMOCAST 713LC		MIMOCAST 713LC	0.05			12	74		4.5				0.7	6.0			
AL6-CR13.5-MO4.5-NI72-TI0.9 1479 MIMOCAST 713 1480 RSABS HM-31 1481 BS NC 203 1482 DIM G-MICR 13 AL6MOMB 1483 EN2192(PRI)2.4670 LN		MIMOCAST 713 MIMOCAST 713 MIMOCAST 713 MIMOCAST 713.2-4670 MIMOCAST 713	0.12 0.12 0.12 0.03-0.07	0.40 0.40 0.40 0.25 MAX.	0.40 0.40 0.40 0.50 MAX.	5.0 6.0 13.5 13.5 11-13	65 73 72 BAL. (72) BAL. (72)		15 2.0 4.5 4.5 3.8-5.2		2.0 10.5 4.0		6.0 6.0 6.0 0.4-1.0 5.5-6.5		0.005-0.015 0.005-0.015	0.50 MAX.	
AL6-CR13.4-MO4-MB/CB8-TA-T11 1484 PER 13						13	BAL. (77)		4.0			NB/CB +	6.0				
AL6-CR5-FE4-CO15-NI65 1485 GE-8-129		GE-8-129	0.06	0.40	0.40	5.0	65		15			2.0	6.0		0.5	4.0	
AL6-CR6-MO2-NI73-M10.5 1486 MIMOCAST PD21		MIMOCAST PD21	0.10			6.0	73		2.0				6.0				
AL6-CR6-MO4-MI/BAL66.4-TA3-V2.5-M4-ZR1 1487 TA2-8		(CAST) TA2-8	0.125			6.0	BAL. (66.4)		4.0		4.0		6.0				
AL6-CR6-MO8-NI/BAL79-ZR1 1488 NASA ALLCY		(CAST)	0.125			6.0	BAL. (79)		8.0				6.0				
AL7.6-CO8-CR12-MO4.25-MB/CB2-NI/BAL65.1-T11 1489 INCONEL ALLOY 717C		INCONEL ALLOY 717C				10-14	BAL. (65.1)	7-9	3.5-5.5			1-3	0.75-1.25	7.2-8.0			
AL8-MO18-NI/BAL74 1490 MX-188		(CAST) MX-188	0.04				BAL. (74)		18				8.0				
AL8-MO22-NI70 1491 KIMSALLOY *							70		22				8.0				
MI 4MO CO ALLOYS 1492 SS 31641PART 3 (CAST)							MICKEL-BASE										
AL3.4-CO8.5-CR16-MO1.8-MI6.1-TA1.6-TI3.4-M2.5 1493 MIMOCAST 738LC		MIMOCAST 738LC	0.11	0.2 MAX.	0.30 MAX.		BAL. (61)	8.5	1.75		2.5	0.7	3.5		0.008	0.5 MAX.	
B-CO13.5-CR19.5-CU0.10-FE2-MO4.3-NI/BAL55-TI3.2R0.5 1494 PER 3			0.02-0.1	0.1-0.1	0.2	18-21	BAL. (55)	12-15	3.5-5.0				2.8-3.3	1.2-1.6	0.003-0.010	2.0	

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
AL6-8-CR5-5FE4-NI0.5-NB/CB2-NI/BAL66.6	1470 GE-B-129	GE-B-129		C-0008	US				INTEGRALLY CAST TURBINE WHEELS.
AL6-8-CR6-MD2-NB/CB1.5-NI/BAL73.2-W11.2R0.12	1471 EPO 16	(CAST)	2R0.12	C-0074	UK				JET ENGINE PARTS.
1472 NIMOCAST PD 16 (CAST)			2R0.12	C-0074	UK			INVESTMENT CASTINGS CASTING ALLOY	GAS TURBINE BLADES, CAST ROTORS AND STATORS.
AL6-8-CR6-MO4-NB/CB2.5-NI/BAL60.4-TA0-M4.2R1	1473 TA2-8A	(CAST)	2R1,TA0	C-0064	US			INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-80.22-CR15.5-FE5-MD3-NI/BAL64.2-T11-M4.2R	1474 G-67	(CAST)	2IRCONIUM +	C-0147	UK			INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-80.25-CR11-FE5-MO3-NB/CB2-NI/BAL62.3-W3.5	1475 G-64	(CAST)		C-0147	UK			INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-CR10-FE4.5-MD5-NB/CB2-NI70.5-ZR0.3	1476 I-1360	(CAST)	ZR0.3	C-0067	US			INVESTMENT CASTINGS	JET ENGINE PARTS.
AL6-CR11-MO3-NB/CB2-NI/BAL74.5-W3.5	1477 BS NC 201	(CAST)		STO.	UK	BS HC 100		CASTINGS	
AL6-CR12-MD4.5-NI74.7T10.7	1478 NIMOCAST 713LC (CAST)	NIMOCAST 713LC		C-0074	UK	BS HC 203	N07713	VACUUM MELTED BAR,CAST	LOW CARBON MOO. OF ALLOY 713, TURBINE BLADES.
AL6-CR13.5-MO4.5-NI72-T10.9	1479 NIMOCAST 713 (CAST)	NIMOCAST 713		C-0074	UK	BS NC 203	N07713	VACUUM MELTED BAR,CAST	GAS TURBINE STATOR/ROTOR PARTS TO11032P/100BC.
1480 RSAB5 MH.31 (CAST)				STO.	SM	MH.31	N07713	CASTINGS	TURBINE STATOR AND ROTOR BLADES TO11032P/100BC.
1481 BS HC 203 (CAST)				STO.	UK	BS HC 203	N07713	CASTINGS	TURBINE STATOR AND ROTOR BLADES TO11032P/100BC.
1482 DIN G-NICR 13 AL6MONB				STO.	GY	G-NICR13AL6H	N07713	CASTINGS	GAS TURBINE ROTOR AND BLADES TO11032P/100BC.
1483 ENZ192(PR),2.4670 LN			2R0.05-0.15	STO.	EU	NI-C 98-HT	N07713		
AL6-CR13.4-MO-NB/CB+TA+T11			TA +	C-0135	FR			WROUGHT FORMS	
AL6-CR5-FE4-CO15-N165	1485 GE-B-129	GE-B-129		C-0076	US			WROUGHT FORMS	
AL6-CR6-MD2-NI73-W10.5	1486 NIMOCAST P021 (CAST)	NIMOCAST P021		C-0074	UK			VACUUM MELTED BAR,CAST	DEVELOPED AS ALLOY M-21.TURBINE STATOR BLADES,
AL6-CR6-MO4-NI/BAL66.4-TA0-W2.5-M4.2R1	1487 TA2-0	(CAST)	2R1,TA0,W2.5	C-0064	US			INVESTMENT CASTINGS	CAST PARTS-DXIOATION RESIS NOT AS G000 AS TAZ.
AL6-CR6-MD0-NI/BAL79.2R1	1488 N4SA ALLOY (CAST)		2R1.0	C-0064	US			CASTINGS	TURBINE BLADES.
AL7.5-CO8-CR12-MO4.25-NB/CB2-NI/BAL65.1-T11	1489 INCONEL ALLOY 717C	INCONEL ALLOY 717C		C-0067	US			BA,FG	TURBINE BLADES.
AL8-MO18-NI/BAL74	1490 NX-180	NX-180		C-0092	US			INVESTMENT CASTINGS	JET ENGINE VANES.
AL8-MD22-NI70	1491 KINSALLOY +			C-0067	US			WROUGHT FORMS	
NI AND CO ALLOYS	1492 BS 3146(PART 3 (CAST)			STO.	UK	BS 3146(P1,3		INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
AL3.4-CO8.5-CR16-MO1.0-NI61-TA1.6-T13.4-W2.5	1493 NIMOCAST 738LC (CAST)	NIMOCAST 738LC	ZR0.00	C-0074	UK			CASTINGS	JET ENGINE PARTS.
8-CO13.5-CR19.5-CU0.10-FE2-MO4.3-NI/BAL95.113.2R0.5	494 PER 3	WASPALLOY	2R0.02-0.08-S0.015 NAK.	C-0135	FR	NC 20 K 14	N07001		JET ENGINE PARTS.

ALLOY NAME OR LINE ALLOY DESIGNATION		COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
=====CHEMICAL COMPOSITION, WEIGHT PERCENT=====															
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
C002-CR22-FE18-M09-NI/BAL51.6-M0.6 1495 WERKSTOFF 2.4665 LM NIMONIC PE 13			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (51.6)	0.5-2.5	8-10	0.2-1.0				0.002-0.010	17-20
B-CR20-FE25-MI16-M8 1456 C1VL 7-450 (CAST)			0.16			20	46			8.0				0.06	25
B-CR30-M018-MI/BAL52 1497 SA-M33 (CAST)			0.20			30	BAL. (92)		18					0.50	
PE0.03-CR25-M050.15-M010-MI64.5 1498 NIMONIC ALLOY 86 NIMONIC 86			0.05			25	64.5		10						
COMPOSITION POSSIBLY SIMILAR TO E1827 1499 GOST EI766															
COMPOSITION UNKNOMH															
C01.2-CR21.5-FE18.5-M09-NI/BAL46.7-M1 1500 RENE Y			0.15 MAX.	1.0 MAX.	1.0 MAX.	20-23	BAL. (48.7)	2.5 MAX.	8-10	2.0 MAX.					17-20
C01.25-CR25-FE5-MN2.5-M03-MI/BAL43.6-SI1-M7 1501 TETALLOY			0.30	2.5	1.0 MAX.	25	BAL. (43.6)	12.5	3-0	7-0					5.0 MAX.
C01.5-CR21.5-FE18.5-M09-NI40-M0.6 1502 RSAB5 MH-03			0.10			21-5	48	1.5	5-0	0.6					18-5
1503 BS HR 6						21.7	BAL. (48)	1.5	9-0	0.6					18-5
1504 S5 HR 204						22	BAL. (48)	1.5	9-0	0.6					18-5
1505 OIM M1CR 22 FE 18 NO			0.10			21.5	48	1.5	9-0	0.6					18-5
1506 EN182(PRI)-2.4665 LM			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (48)	0.5-2.5	8-10	0.2-1.0				0.002-0.010	17-20
1507 EN182(PRI)-2.4665 LM			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (48)	0.5-2.5	8-10	0.2-1.0				0.002-0.010	17-20
1508 EN182(PRI)-2.4665 LM			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (48)	0.5-2.5	8-10	0.2-1.0				0.002-0.010	17-20
1509 EN182(PRI)-2.4665 LM			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (48)	0.5-2.5	8-10	0.2-1.0				0.002-0.010	17-20
1510 NIMONIC ALLOY PE13			0.10			21.5	46	1.5	9-0	0.6					18-5
C01.5-CR22-FE18.5-M09-NI/BAL46.6 1511 G.103			0.10	0.75	0.75	22	BAL. (46.6)	1.5	5-0	0.75					18-5
C01.5-CR22-FE18.5-M09-NI/BAL47.3-M0.1 1512 WERKSTOFF 2.4613 QIN			0.10	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1513 UNITEM 680			0.20 MAX.	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1514 UNITEM HP			0.65			21.5	BAL. (47.3)	1.5	9-0	0.6					17-20
1515 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1516 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1517 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1518 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1519 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1520 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1521 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1522 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1523 AMS 5390			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1524 CASPENTER PYROMET 680			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1525 ASM B 435			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1526 ASM B 567 OR-5 (680)			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1527 ASM B 366 GRAC-MPHX			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1528 ASM B 572			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1529 ASM B 572			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.20-1.0					17-20
1530 EASTERN ALLOY 536			0.50			22	BAL. (47.3)	1.5	9-0	0.6					18-5
1531 AFG EC			0.10			22	BAL. (47.3)	1.5	9-0	0.6					18-5
1532 AFG NC 22 FE 0			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.50	8-10	0.2-1.0					17-20
1533 WERKSTOFF 2.4613 QIN			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.50	8-10	0.2-1.0					17-20
1534 AEGMA NI-P 93-MT			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.50	8-10	0.2-1.0					17-20
1535 PYGAL 49			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.50	8-10	0.2-1.0					17-20
1536 AIR 9165-131			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.50	8-10	0.2-1.0					17-20
1537 VACUUTHERM HX			0.08			22	BAL. (47.3)	1.5	9-0	0.8				0.006	17-20
1538 ASM H4N-15 (HAST. X)			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.2-1.0					17-20
1539 ASM H4N-15 (HAST. X)			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.2-1.0					17-20
1540 PYROMET 680			0.50			22	BAL. (47.3)	1.5	9-0	0.6					18-5
1541 UGAR ALLOY X			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.6					17-20
1542 ISO 49 (ORAFIT)			0.05-0.15	1.0 MAX.	1.0 MAX.	20.5-23.0	BAL. (47.3)	0.5-2.5	8-10	0.2-1.0					17-20
1543 WERKSTOFF 2.4972 QIN			0.10			22	BAL. (47.3)	1.5	9-0	0.6					18-5
1544 AFG 5, 2.4665 LM			0.10			22	BAL. (48)	1.5	9-0	0.6					18-5
C01-CR16-FE15-M015.5-MI/BAL66 1545 ISO 25 (ORAFIT)			0.15 MAX.	1.0 MAX.	0.00 MAX.	14-19	BAL. (66)	2.0 MAX.	14-17			0.7 MAX.			3.0 MAX.
1546 AIR MI NO 16CR 16TI			0.15 MAX.	1.0 MAX.	0.08 MAX.	14-18	BAL. (66)	2.0 MAX.	14-17			0.7 MAX.			3.0 MAX.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	CONCOM NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL BASE ALLOYS (Continued)									
B-CR22-CR22-FE18-MO9-NI7-BAL51.6-MO.6	1455 NERKSTOFF 2.4665 LN	NIMONIC PE 13	SA-015 MAX., P0.015 MAX.	STD.	6Y	2.4665 LN	---	SH, ST	JET ENGINE PARTS.
B-CR20-FE25-NI46-M8	1496 GIVL 7-450	(CAST)	---	STD.	UR	---	---	CAST ALLOY	NOZZLE GUIDE VANES.
B-CR30-MO18-NI7-BAL52	1497 SA-N33	SA-N33	---	C-0164	US	---	---	CASTINGS	SHALL OR VEHICULAR GAS-TURBINE ENGINES.
CE0.03-CR25-MO.15-MO10-NI66-M.5	1498 NIMONIC ALLOY 86	NIMONIC 86	MO.015, CE0.03	C-0074	UK	---	---	SH, PL, BA, R00	GAS TURBINE COMPONENTS.
COMPOSITION POSSIBLY SIMILAR TO E1827 E1766									
1499 GOST E1766	---	---	---	STD.	UR	---	---	NROUGHT ALLOY	TURBINE DISCS (AIRCRAFT).
CO1.2-CR21.5-FE18.5-LA8.12-MO9-NI7-BAL48.7-M1	1500 RENE Y	---	LA-0.05-0.30	C-0070	US	---	---	WROUGHT FORMS	BURNER CANS.
CO1.25-CR25-FE5-MN2.5-MO3-NI7-BAL43.6-SI11-M7	1501 THETALLOY	THETALLOY	---	C-0092	US	---	---	INVESTMENT CASTINGS	HIGH TEMPERATURE APPLICATIONS.
CO1.5-CR21.5-FE18.5-MO9-NI48-M0.6	1502 RSAS NH-03	NIMONIC PE 13-HAST X	---	STD.	SN	MH. 63	N06002	NROUGHT FORMS	SHEET METAL PARTS FOR GAS TURBINES.
1503 BS HR 90A	---	NIMONIC PE 13-HAST X	---	STD.	UK	BS HR 6	N06002	BI, BA, FG, AND PARTS	SHEET METAL PARTS FOR GAS TURBINES.
1505 DIN NCR 22 FE 18 MO	---	NIMONIC PE 13-HAST X	---	STD.	UK	BS HR 284	N06002	PL, SH, ST	SHEET METAL PARTS FOR GAS TURBINES.
1506 EN21.85(FR)2.4665 LN	---	NIMONIC PE 13-HAST X	---	STD.	EU	NICR18CO16MO	N06002	NROUGHT FORMS	SHEET METAL PARTS FOR GAS TURBINES.
1507 EN21.85(FR)2.4665 LN	---	NIMONIC PE 13-HAST X	---	STD.	EU	MI-C 114-HT	N06002	---	---
1508 EN21.85(FR)2.4665 LN	---	NIMONIC PE 13-HAST X	---	STD.	EU	MI-C 114-HT	N06002	---	---
1509 EN21.85(FR)2.4665 LN	---	NIMONIC PE 13-HAST X	---	STD.	EU	MI-C 114-HT	N06002	---	---
1510 NIMONIC ALLOY PE13	---	NIMONIC PE13	---	STD.	UK	BS HR 6	N06002	SH, PL, ST, BA, R00, H, SEC	SIMILAR TO NIMONIC 75-GAS TURBINE SHEET PARTS.
CO1.5-CR22-FE18.5-MO9-NI7-BAL46.6	1511 G.103	---	---	C-0147	UK	---	---	NROUGHT FORMS	---
CO1.5-CR22-FE18.5-MO9-NI7-BAL47.3-M0.1	1512 HASTELLOY X, A1SI 880	HASTELLOY X, A1SI 880	S0.04MAX, P0.04MAX.	C-0068	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE SHROUD SEGMENTS; VANES TO1220DF/12040.
1513 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.04MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	BA, SH, ST	JET ENGINE TAIL PIPES AND TURBINE BLADES.
1514 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.04MAX, P0.04 MAX.	C-0072	US	AMS 5338	N06002	---	JET ENGINE COMPONENTS.
1515 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.03 MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1516 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1517 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1518 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1519 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1520 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1521 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1522 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1523 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1524 CARPENTER PYROMET 600	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	C-0042	US	AMS 5338	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1525 ASTM B 435	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 435	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1526 ASTM A 567 GR-5 (600)	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM A 567	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1527 ASTM B 366, GRADE, MPH	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 366	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1528 ASTM B 572	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1529 EASTERN ALLOY 536	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	C-0107	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1530 EASTERN ALLOY 536	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	C-0102	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1531 ATG E	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1532 AFOR NC 22 FE 0	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1533 WERKSTOFF 2.4613 DIN	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1534 AECMA NI-P 93-HT	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1535 PYRAD 49 D	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1536 NI-P 93-HT	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1537 NI-P 93-HT	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1538 NI-P 93-HT	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1539 HASTELLOY X, A1SI 880	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1540 PYROMET 600 X-200	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1541 UCAR ALLOY X	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1542 ISO 19 (ORAF)	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1543 WERKSTOFF 2.44972 DIN	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
1544 RTG 5, C.4665 LN	---	HASTELLOY X, A1SI 880	S0.03MAX, P0.04MAX.	STD.	US	ASTM B 572	N06002	INVESTMENT CASTINGS	TURBINE VANE-OXIDATION RESIST.
CO1.5-CR22-FE18.5-MO15.5-MI7-BAL66	1545 ISO 25 (ORAF)	HASTELLOY C-4	S0.03MAX.	STD.	XX	---	---	---	---
1546 DIN NI NO 16CR 16TI	---	HASTELLOY C-4	S0.03MAX.	STD.	6Y	---	---	---	---

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
=====CHEMICAL COMPOSITION=====															
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
C-242	C-242	NIMONIC C242	0.3	0.30	0.30	20	BAL. (59.5)	10	10						1.0 MAX. 1.0 MAX.
C-242	C-242	NIMONIC C242	0.30			20	BAL. (59.5)	10	10				0.2 MAX.		
C-242	C-242	NIMONIC C242	0.30	0.30	0.30	20	BAL. (59.5)	10	10				0.2 MAX. 0.10		1.0 MAX. 0.5
C-242	C-242	NIMONIC C242	0.25	0.35		21.5	BAL. (57)	10.25	10.5						
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.12 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.12 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL. (62)	2.5 MAX.	26-30						4-6
C-242	C-242	NIMONIC C242	0.05 MAX.	1.0 MAX.	1.0 MAX.	1.0 MAX.	BAL								

TABLE 2. (Continued)

[illegible]

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON	=====CHEMICAL COMPOSITION-WEIGHT PERCENT=====																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
																NIOBIUM	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
C020	CR20-NI/BAL50-T12			C-0135	FR			WROUGHT FORMS	
1607	PER 28								
C034	CR20-5-FE/BAL16-6-MN1-6-MO2-7-MB/CB2-5-NI16-5-T11			C-0103	UK			WROUGHT FORMS	GAS TURBINE PARTS. HEAT RESISTANT.
1603	MULTI-ALLOY								
C034	CR25-FE19-MN1-5-MO3-NI/BAL45-5-SIL-25-W3			C-0102	FR	Z 6 MCKON 45	M06333	WROUGHT FORMS	COMBUSTION CHAMBERS.
1609	ATG 33	RA-333		STO.	FR	Z 6 MCKON 45	M06333	WROUGHT FORMS	COMBUSTION CHAMBERS.
1610	AFNOR Z 6 MCKON 45	RA-333							
C034	CR25-FE18-MN1-5-MO3-NI45-5			C-0077	US	AMS 5593	N06333	WROUGHT FORMS	TURBINE PARTS. RADIANT TUBES.
1611	RA-333	RA-333	P80-025H-SH0-025H-C00-5H.	STO.	US	AMS 5593	N06333	WROUGHT FORMS	OXIDATION RESISTANCE TO 12150F/1177C.
1612	AMS 5593	RA-333	P80-025H-SH0-025H-C00-5H.	STO.	US	AMS 5717	N06333	WROUGHT FORMS	OXIDATION RESISTANCE TO 12150F/1177C.
1613	AMS 5717	RA-333	P80-025H-SH0-025H-C00-5H.	STO.	US				
C054	CR20-NI/BAL74-5-T10-4			C-0135	FR			WROUGHT FORMS	GAS TURBINE COMPONENTS.
1614	PER 1								
C054	CR22-NI/BAL69-T14			C-0135	FR			WROUGHT FORMS	GAS TURBINE COMPONENTS.
1615	PER 2								
CR08-5	FEL-M028-NI/BAL71	HASTELLOY B-2	S0-03MAX.	STO.	XX		M10665		
1616	ISO 18 (DRAFT)	HASTELLOY B-2	S0-03MAX.	C-0135	FR		N10665		
1617	ANIC 2650								
CR08-6	FEL-M028-NI/BAL62-4-V2	HASTELLOY B-202	V2	C-0066	US			WROUGHT FORMS	
1618	HASTELLOY B-202								
CR10	FE28-NI60-W4			C-0102	FR			BA+FG	GAS TURBINE AND INTERNAL COMBUSTION ENGINES.
1619	IMPY A.T.G.								
CR14-5	FE3-NI/BAL77-4-T10-4			C-0074	UK			CASTING ALLOY	JET ENGINE COMPONENTS.
1620	NIMONIC CF	NIMONIC CF							
CR15-5	FEL1-5-M016-NI/BAL63-7-W3-75			STO.	UR	GOST 5632-72		WROUGHT ALLOY	COMBUSTION CAMS, TAILPIPIES, AFTERBURNER LINERS.
1621	GKN15M5M16	EP567	S0-020MAX.+P0-020MAX.	STO.	UR	GOST 5632-72		WROUGHT ALLOY	COMBUSTION CAMS, TAILPIPIES, AFTERBURNER LINERS.
1622	GKN15M5M16V	EP567	S0-02H+P0-02MAX.	STO.	UR	GOST 5632-72		WROUGHT FORMS	WROUGHT FORMS
1623	GOST1EP567	EP567	S0-020MAX.+P0-020MAX.	STO.	UR	GOST 5632-72		WROUGHT FORMS	WROUGHT FORMS
1624	GKNM5M16V	EP567	S0-020MAX.+P0-020MAX.	STO.	UR	GOST 5632-72		WROUGHT FORMS	WROUGHT FORMS
1625	G10KH13M5M16V	EP567	S0-020MAX.+P0-020MAX.	STO.	UR	GOST 5632-72		WROUGHT FORMS	WROUGHT FORMS
CR15-5	FE6-M03-MB/CB3-NI/BAL69-5-W3			C-0160	GY			WROUGHT FORMS	
1626	RTG 501								
CR15-5	FE8-NI/BAL75-4			C-0147	UK			WROUGHT FORMS	CREEP AND SCALE RESISTANT.
1627	G-63	G-63							
CR16-3	FE19-5-M015-3-NI/BAL53-9			C-0068	US				IMPROVED VERSION OF HASTELLOY ALLOY C-276.
1628	HASTELLOY C4	HASTELLOY C4	C02						
CR16-5	FE5-5-M017-NI/BAL56-5-W4-5			STO.	UK	BS 3146 PT.2	M10002	INVESTMENT CASTINGS	RESISTANT TO CORROSION BY OXIDIZING ACIDS.
1629	BS 1362/2 AND 16 (C)	HASTELLOY C	S0-03 MAX.	STO.	UK	BS 3146 PT.2	M10002	INVESTMENT CASTINGS	RESISTANT TO CORROSION BY OXIDIZING ACIDS.
CR16	FE4-5-M017-5-NI60-W5			STO.	UR			WROUGHT ALLOY	
1631	G1M65M19KH15VCL	HASTALLOY C							
CR16	FE6-5-MW2-25-NI71-T13-05			C-0067	US			WROUGHT FORMS	EXHAUST VALVES IN PISTON AIRCRAFT ENGINES.
1632	INGONEL 721	INGONEL M							
CR19-25	FE4-M175-T12-4			STO.	UR	GOST 5632-72		WROUGHT ALLOY	
1633	GOST1E1435	E1435		STO.	UR			WROUGHT ALLOY	
1634	G10KH21M78T	E1435	C00-2						
CR19-5	FE3-NI/BAL77-T10-5			C-0127	GY	2-4630 OIM		WROUGHT FORMS	HIGH TEMPERATURE NICKEL BASE ALLOY.
1635	MITTEM OA 208.0L	NICR20 TI							

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	NIOB/NIUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP IV - NICKEL-BASE ALLOYS (Continued)															
CR19.5.FE4.NI75.TI0.4															
1636	NICROFER 7520 (ICAST)	NIMONIC 75, 2.4630 LM	0.05-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.20-0.60	0.3		5.0 MAX.
1637	ROSS VAC 54 (ICAST)	NIMONIC 75	0.10	0.6	0.5-1.0	20	BAL. (75)					0.2-0.6	0.3		5.0 MAX.
1638	52 J1662Z ANC 8(ICAST)	NIMONIC 75, 2.4630 LM	0.05-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1639	52 J1662Z ANC 8(ICAST)	NIMONIC 75	0.10	0.6	1.0 MAX.	19-21	BAL. (75)					0.4			5.0 MAX.
1640	RG 0 038	NIMONIC 75	0.13	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1641	WERKSTOFF 2.4951 OIN	NIMONIC 75	0.13	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1642	WERKSTOFF 2.4951 OIN	NIMONIC 75	0.13	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1643	OIN NICR20TI	NIMONIC 75	0.13	1.0 MAX.		19.5	BAL. (75)					0.2-0.6			5.0 MAX.
1644	AFHOR MC 20 T	NIMONIC 75	0.08-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1645	AECHA NI-P 91-HT	NIMONIC 75	0.08-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)					0.4			5.0 MAX.
1646	ATG R NC 20 T	NIMONIC 75	0.06	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1647	ACRSTOFF 2.4630 LM	NIMONIC 75	0.06	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1648	WERKSTOFF 2.4630 LM	NIMONIC 75	0.08-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1649	AECHA NI-P 91-HT	NIMONIC 75	0.06	1.0 MAX.		19.5	BAL. (75)					0.4			5.0 MAX.
1650	AIR 9165-091	NIMONIC 75	0.08-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1651	PHOEMIX R 75	NIMONIC 75	0.08-0.15	1.0 MAX.		18-21	75					0.2-0.6			5.0 MAX.
1652	R 75 (NICR 20 TI)	NIMONIC 75	0.08-0.15	1.0 MAX.		18-21	75					0.4			5.0 MAX.
1653	VACUUMTHERM 9-1	NIMONIC 75	0.10	1.0 MAX.	1.0 MAX.	20	BAL. (75)					0.15-0.35	0.15 MAX.		6.0 MAX.
1654	GOST EI435	EA35-NIMONIC 75	0.12 MAX.	0.7 MAX.	0.6 MAX.	19-22	BAL. (75)					0.15-0.35			6.0 MAX.
1655	GOST EI435	EA35-NIMONIC 75	0.12 MAX.	0.7 MAX.	0.6 MAX.	19-22	BAL. (75)					0.4			5.0 MAX.
1656	UCAR ALLCY 75	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.8			5.0 MAX.
1657	TOPHET 75	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.8			5.0 MAX.
1658	CORALLOY 4351	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.8			5.0 MAX.
1659	75	NIMONIC 75	0.12	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1660	75	NIMONIC 75	0.12	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1661	ISO 12 (ORAFET)	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1662	EN2293(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1663	EN2294(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1664	EN2302(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1665	EN2306(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1666	EN2307(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1667	EN2307(PRI) 2.4630 LM	NIMONIC 75, 2.4630 LM	0.08-0.15	1.0 MAX.	0.10 MAX.	18-21	BAL. (75)					0.2-0.6			5.0 MAX.
1668	NICOTHEI421	NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	18-21	75 MIN.					0.4			4.0
1669	GOST EI421	NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	18-21	75 MIN.					0.4			4.0
1670	GKHN80T	EA421-NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	18-21	75 MIN.					0.4			4.0
1671	GKHN78T	EA421-NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	19-22	75 MIN.					0.4			4.0
1672	GKHN78T	EA421-NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	19-22	75 MIN.					0.4			4.0
1673	GOST EI435	EA35-NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	19-22	75 MIN.	0.015				0.4			4.0
1674	GKHN78T	EA35-NIMONIC 75	0.12	0.70 MAX.	0.60 MAX.	19-22	75 MIN.					0.4			4.0
1675	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1676	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1677	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1678	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1679	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1680	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1681	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1682	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1683	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1684	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1685	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1686	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1687	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1688	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1689	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1690	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1691	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1692	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1693	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1694	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1695	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1696	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1697	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1698	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1699	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1700	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1701	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1702	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1703	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1704	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1705	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1706	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1707	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1708	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1709	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1710	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1711	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1712	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1713	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1714	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1715	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1716	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75					0.4			4.0
1717	BS 203	NIMONIC 75	0.12	0.70	0.60	19-23	75								

LINE	ALLOY NAME OR ALLOY DESIGNATION	CONOM NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
C819.5-Fe0.1Nb75-Ti0.4		NINONIC 75-2.4630 LN	Cu0.5H.5S0.03H.0.045H.	C-0168	UK	2.4951 DIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS, FIRE TUBES ETC.
1636	ROSS VAC 55-20 (CAST)	NINONIC 75	---	C-0085	UK	NSR 7004	---	INVESTMENT CASTINGS	GOOD RESIST TO CREEP; OXIDATION TO 1320F/750.
1637	ROSS VAC 55-20 (CAST)	NINONIC 75	---	ST0.	UK	BS 3146 Pt-2	N07080	WROUGHT FORMS	JET ENGINE PARTS.
1639	OTD 7038	NINONIC 75	---	ST0.	UK	OTD 7038	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1640	RG 0	NINONIC 75	---	C-0160	UK	2.4630 LN	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1641	MERKSTOFF 2.4951 OIN	NINONIC 75	---	ST0.	GY	2.4951 OIN	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1642	MERKSTOFF 2.4630 LN	NINONIC 75	---	ST0.	GY	2.4630 LN	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1643	AFNO NICKR 20 T	NINONIC 75	P80.02.S0.015H.P0.015MAX.	ST0.	FR	NICKR 20 T	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1644	AFNO NICKR 20 T	NINONIC 75	---	ST0.	FR	NICKR 20 T	---	WROUGHT FORMS	GAS TURBINE TUBES, STATOR BLADES, CHAMBER LINER,
1645	AECMA NI-P 91-HT	NINONIC 75	---	C-0102	FR	NC 20 T	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1646	ATC R	NINONIC 75	---	ST0.	FR	NC 20 T	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1647	AFOR NC 20 T	NINONIC 75	---	ST0.	FR	NC 20 T	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1648	MERKSTOFF 2.4630 LN	NINONIC 75	Cu0.5	ST0.	FR	2.4630 LN	---	SH-ST, PL	SHEET METAL WORK IN GAS TURBINES.
1649	AECMA NI-P 91-HT	NINONIC 75	---	ST0.	FR	NI-P 91-HT	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1650	ALB 9155-091	NINONIC 75	P80.02.Cu0.5.S0.015.P0.01	ST0.	FR	NI-P 91-HT	---	BA-FG, SN	SHEET METAL WORK IN GAS TURBINES.
1651	ALB 9155-091	NINONIC 75	---	ST0.	FR	2.4630 LN	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1652	75 (NICKR 20 T)	NINONIC 75	---	C-0170	GY	2.4630 LN	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1653	VACUUMTHERN 9-1	NINONIC 75	---	C-0153	GY	2.4630 LN	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES.
1654	E1435-NINONIC 75	NINONIC 75	S0.012HAX.P0.015HAX.	ST0.	GY	GOST 5632-72	---	WROUGHT FORMS	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1655	G4KH787	NINONIC 75	S0.012HAX.P0.015HAX.	ST0.	UR	GOST 5632-72	---	WROUGHT FORMS	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1656	UCAR ALLOY 75	NINONIC 75	Cu0.5H0.5S0.030H.P0.045H.	C-0161	UK	BS HR 5, 203	---	BA-BI, INCOIT	CONBUSTION CHAMBER CASTINGS AND FIRE TUBES.
1657	TORPET 75	NINONIC 75	C-0179	ST0.	UK	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS AND FIRE TUBES.
1658	CORALLOY 4951	NINONIC 75	C-0184	ST0.	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS AND FIRE TUBES.
1659	UCAR ALLOY 75	NINONIC 75	Cu0.5H.5S0.03H.P0.045H.	C-0195	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS AND FIRE TUBES.
1660	E 2.4951	NINONIC 75	Cu0.5H.5S0.03H.P0.045H.	C-0195	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS AND FIRE TUBES.
1661	ISO 12 (DRAFT)	NINONIC 75	Cu0.5H.5S0.02 HAX.	ST0.	XX	---	---	---	---
1662	EN293(PRI) 2.4630 LN	NINONIC 75	S0.02HAX.	ST0.	EU	2.4951 OIN	---	---	---
1663	EN294(PRI) 2.4630 LN	NINONIC 75	NI-P 91-HT	ST0.	EU	2.4951 OIN	---	---	---
1664	EN302(PRI) 2.4630 LN	NINONIC 75	S0.02HAX.	ST0.	EU	2.4951 OIN	---	---	---
1665	EN306(PRI) 2.4630 LN	NINONIC 75	S0.02HAX.	ST0.	EU	2.4951 OIN	---	---	---
1666	EN307(PRI) 2.4630 LN	NINONIC 75	S0.02HAX.	ST0.	EU	2.4951 OIN	---	---	---
1667	EN308(PRI) 2.4630 LN	NINONIC 75	S0.02HAX.	ST0.	EU	2.4951 OIN	---	---	---
1668	NINONIC ALLOY 75	NINONIC 75	---	C-0074	UK	BS NR 5	---	SH, PL, ST, BA, P00, FG, M-T	SHEET METAL PARTS IN GAS TURBINES.
1669	GOST IEI 421	NINONIC 75	---	ST0.	UR	---	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1670	G4KH20R80T	NINONIC 75	Cu0.20	ST0.	UR	---	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1671	G4KH787	NINONIC 75	Cu0.20	ST0.	UR	GOST 5632-72	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1672	G4KH751	NINONIC 75	S0.012HAX..P0.015 NAX.	ST0.	UR	GOST 5632-72	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1673	G4KH20R735	NINONIC 75	S0.012HAX..P0.015 MAX.	ST0.	UR	GOST 5632-72	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1674	G4KH20R737	NINONIC 75	---	ST0.	UR	---	---	WROUGHT ALLOY	CONBUSTION CANS, TAILPIPPES, AFTERBURNER LINERS.
1675	E1435-NINONIC 75	NINONIC 75	---	ST0.	UK	BS HR 203	---	SH-ST, P	GAS TURBINE PARTS.
1676	BS HR 203	NINONIC 75	---	ST0.	UK	BS HR 403	---	COLD WORKED SEAMLESS T	GAS TURBINE PARTS.
1677	BS HR 403	NINONIC 75	---	ST0.	UK	BS NR 403	---	MIRE 8A-RIVETS	GAS TURBINE PARTS.
1678	BS 2HR 504	NINONIC 75	---	ST0.	UK	BS 2HR 504	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES
1679	RSAB HM.05	NINONIC 75	---	ST0.	SK	HM.05	---	WROUGHT FORMS	SHEET METAL WORK IN GAS TURBINES
1679	BS HR 5	NINONIC 75	---	ST0.	UK	BS HR5	---	BI, BA, FG, AND PARTS	SHEET METAL WORK IN GAS TURBINES
C819.5-Fe0.1Nb75-Ti0.4		NINONIC 75-2.4630 LN	Cu0.5H.5S0.03H.0.045H.	C-0147	UK	2.4951 DIN	---	INVESTMENT CASTINGS	NOZZLE GUIDE VANES IN GAS TURBINES.
1660	G-39	NINONIC F	---	C-0074	UK	---	---	WROUGHT ALLOY	GAS TURBINE FLAME TUBES.
C819.5-Fe0.1Nb75-Ti0.4		NINONIC 75	---	C-0147	UK	---	---	INVESTMENT CASTINGS	---
C819.5-Fe0.1Nb75-Ti0.4		NINONIC 75	---	C-0147	UK	---	---	INVESTMENT CASTINGS	---
1683	THERMATHER 2080	NINONIC 75	Cu0.5H.5S0.03H.P0.045H.	C-0105	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS, FIRE-TUBES ETC.
1685	CRB 30	NINONIC 75	Cu0.5HAX.S0.03H.P0.045H.	C-0152	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS, FIRE-TUBES ETC.
1686	LASTE 4951	NINONIC 75	Cu0.5HAX.S0.03H.P0.045H.	C-0186	GY	2.4951 OIN	---	WROUGHT FORMS	CONBUSTION CHAMBER CASTINGS, FIRE TUBES ETC.
C819.75-Fe3.H06.H9/C6.55.NI/9AL62.24.WC.5		NINONIC 75	---	C-0161	UK	---	---	BA	---
1687	UCR ALLOY NC-402	NINONIC 75	---	ST0.	GY	2.4951 DIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
C820-Fe2.5-NI/BAL74.6		NINONIC 75	---	ST0.	GY	2.4951 DIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
1688	DIN NICKR2011	NINONIC 75	---	ST0.	GY	2.4951 DIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
C820-Fe2.5-NI/BAL77.1-Ti0.4		NINONIC 75	---	ST0.	GY	2.4951 DIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
1689	MERKSTOFF 2.4951 OIN	NINONIC 75	---	ST0.	UK	2.4951 OIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.
1690	THERMAX 75	NINONIC 75	---	ST0.	UK	2.4951 OIN	---	WROUGHT FORMS	HIGH TEMPERATURE NICKEL-BASE ALLOY.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	CHEMICAL COMPOSITION, WEIGHT PERCENT									
							GROUP IV - NICKEL-BASE ALLOYS (Continued)									
							NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON	
CR20.FE5.NI64.3.NI64.5.W4.75																
1697 THERMOUR 50 CM 30.5																
1698 SEN-471.G-NICR 28 W																
1699 C-NICR 28 W																
1700 WERKSTOFF 2.4479 DIN																
CR48.NI78AL51.6.TI0.35																
1701 INCONEL 671																
FE5.5.MO26.NI78AL66.5																
1702 BS 3146/2 ANC 15 (C)																
INSPECTION OF HEAT RESISTING ALLOYS																
1703 BS 2HR 100																
INSPECTION OF Ni-CO, FE-CU, AND REFRACTORY METAL CASTINGS																
1704 BS NC 100 (CAST)																
INSPECTION Ni-CO, FE																
VARIOUS NICKEL AND NICKEL-BASE ALLOYS																
1705 BS 3072																
1706 BS 3073																
1707 BS 3074																
1708 BS 3075																
1709 BS 3076																
CO12-CR25-FE3.MO0.5.NI78AL59.TI0.25-ZR0.25																
1710 IN-603 (CAST)																
AL0.22-CO/BAL73.7-NI22.5-FE1.TI1.0-ZR0.2																
1711 NINCO 10																
AL0.25-8-CO/BAL42.8-CR20-FE1.5-MO0.5-NI10-W15																
1712 UCAR ALLOY 25																
AL0.5-CO-N8-CR20-NI15-TI1.3-W15																
1713 CH-7 (CAST)																
AL0.75-CO36.5-CR13.5-FE1.6-NB/CRI1.2-NI24.5-TI2.15-W12																
1714 M-203																
AL3.5-CO/BAL58-CR21-FE2.5-NB/CB2-NI1.W1.Y0.1																
1715 AIREST 13 (CAST)																
AL3.5-CO/BAL65.9-CR19-T6.5-W4.7-Y0.1-ZR0.15																
1716 AIREST 213 (CAST)																
AL4.3-CO/BAL64.1-CR19-T7.5-W4.5-Y0.17-ZR0.13																
1717 AIREST 215 (CAST)																

GROUP V -- COBALT-BASE ALLOYS

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	CONCOM NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP IV - NICKEL-BASE ALLOYS (Continued)									
CR20-FE3-NI6-NI4-NI2-5	1691 NINOCAST PE10 (CAST)	NINOCAST PE10		C-0074	UK	BS HC 202		AIR NITLED BAR, CASTING	TURBOCHARGER ROTORS, GAS TURBINE COMPONENTS, GAS TURBINE COMPONENTS, TO11688F/870C.
1692 BS HC 202	(CAST)	NINOCAST PE10		STO.	UK	BS HC 202		CASTINGS	
1693 AFNR NC 20 N13	(C)	NINOCAST PE10		STO.	FR	NI-C 403-MT		CASTINGS	GAS TURBINE COMPONENTS TO11688F/870C.
CR20-FE5-NI7-AL7-6-TI9-4	1694 NITEN DA 2089	01N NCR20TI		C-0127	GY	2-495110IN		NROUGHT FORMS	HIGH TEMPERATURE NICKEL BASE ALLOY.
CR20-NI3-NB/CB1-5-NI/BAL71-TA1-5-M3	1695 JESSOP 6.39	(CAST) G.39	TA1.5	C-0147	UK			INVESTMENT CASTINGS	NOZZLE GUIDE VANES IN GAS TURBINES.
CR20-NI/BAL78-THO2/2.0	1696 TONICR	TONICR	THO 2	C-0155	US			SH, ST	BETTER OXIDATION RESISTANCE THAN TO NICKEL.
CR28-5-FE/BAL10-3-NI40-5-N4-75	1697 THERMOUR 50 CNW 30 5	G-NICR 28 N 2-4479 OIN		C-0126	GY	2-4879 OIN		CASTINGS	
1698 SEN-471-6-NICR 28 N		G-NICR 28 N 2-4479 OIN		STO.	GY	2-4879 OIN		CASTINGS	
1699 G-NICR 28 N		G-NICR 28 N 2-4479 OIN		STO.	GY	2-4879 OIN		CASTINGS	
1700 NERKSTOFF 2-4879 OIN		G-NICR 28 N 2-4479 OIN		STO.	GY	2-4879 OIN		CASTINGS	
CR46-NI/BAL51-6-TI10-35	1701 INCONEL 671			C-0067	US				
FE5-5-NI20-NI/BAL66.5	1702 BS 3146/2 ANI 15 (C)	HASTELLOY B	S0.03 MAX.	STO.	UK	BS 3146 PT.2	N10001	INVESTMENT CASTINGS	RESISTANT TO HOT HCL AND OTHER ACIDS.
INSPECTION OF HEAT RESISTING ALLOYS	1703 BS 2HR 100	INSPECTION HEAT RES.		STO.	UK	BS 2HR 100		NROUGHT FORMS	MANY APPLICATIONS INSPECTION PROCEDURES.
INSPECTION OF NI, CO, FE, CU, AND REFRACTORY METAL CASTI	1704 BS HC 100	INSPECTION NI, CO, FE		STO.	UK	BS HC 100		CASTINGS	INSPECTION OF FE, NI, CO, CU AND REFRACTORY MET.
VARIOUS NICKEL AND NICKEL-BASE ALLOYS	1705 BS 3072			STO.	UK	BS 3072		SH, PL	
1706 BS 3073				STO.	UK	BS 3073		ST	
1707 BS 3074				STO.	UK	BS 3074		TUBING	
1708 BS 3075				STO.	UK	BS 3075		WIRE	
1709 BS 3076				STO.	UK	BS 3076		RODS	
CO12-CR25-FE3-NI00-5-NI/BAL59-TI10-25-ZR0-25	1710 IN-643		ZR0-25	C-0067	US			INVESTMENT CASTINGS	TUBES IN CHEMICAL REFORMING UNITS.
AL0-22-CO/BAL73-7-NI22-5-FE4-TI1-9-ZR0-2	1711 NIWCO 10	NIWCO 10	ZR0-20	C-0073	US			BA, FG, SH, ST, PL, N	JET ENGINE/GAS TURBINE PARTS.
AL0-25-8-CO/BAL42-0-CR20-FE1-5-NI10-M15	1712 UGAR ALLOY 25			C-0161	UK	BS HR 40.240		BA, BI, INCOIT	
AL0-5-CO48-CR20-NI15-TI1-3-M15	1713 CN-7	(CAST) CN-7		C-0079	US			INVESTMENT CASTINGS	
AL0-75-CO36-5-CR19-5-FE1-6-NB/CB1-2-NI24-5-TI2-15-M1	1714 N-293	N-203		C-0078	US			NROUGHT FORMS	
AL3-5-CO/BAL58-CR21-FE2-5-NB/CB2-M11-N14-Y0-1	1715 AIREST 13	(CAST) AIREST 13	Y0.1	C-0090	US			INVESTMENT CASTINGS	HIGH-TEMP. PARTS, JET ENGINE GAS TURBINE.
AL3-5-CO/BAL65-9-CR19-TA6-5-M4-7-Y0-1-ZR0-15	1716 AIREST 213	(CAST) AIREST 213	Y0.1, ZR0-15, TA6.5	C-0090	US			INVESTMENT CASTINGS	SHEETS, TUBING RESISTANT TO HOT CORROSION.
AL4-3-CO/BAL64-1-CR19-TA7-5-M4-5-Y0-17-ZR0-13	1717 AIREST 215	(CAST) AIREST 215	Y0.17, ZR0-13, TA7.5	C-0090	US			INVESTMENT CASTINGS	NOZZLE VANES+ RESISTANT TO HOT CORROSION.

TABLE 2. (Continued)

=====CHEMICAL COMPOSITION-WEIGHT PERCENT=====															
LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP V - COBALT-IRIDIUM ALLOYS (Continued)															
8,AL2.75+CO37.5+CR18.5+FE1.6+Nb/CB1.2+N124.5+M12	1710 H-205	N-205	0.07	-----	-----	18.5	24.5	37.5	-----	12	1.2	-----	2.75	0.22	1.6
8,CO/BAL36,CR19+N127+FA2+T13.8+M12	1719 J-1650	J-1650	0.20	-----	-----	19.0	27.0	BAL. (36)	-----	12	-----	3.8	-----	0.02	-----
8,CO/BAL42,CR20,FE4,MH1.2+Mn+NB/CB1,N120,MH	1720 CRUCIBLE	WASPALLOY	0.07	-----	-----	19	56	14	4.3	-----	-----	3.0	1.3	-----	1.0
1721 S-816B	1721 S-816B	S-816B	0.32-0.42	0.6-1.0	1.0 MAX.	19-21	19-21	BAL. (42)	3.5-4.5	3.5-5.0	3.0-4.5	-----	-----	BORON 0.005	5.0 MAX.
1722 ASTM A 659 GRADE 671	1722 S-816	S-816	0.32-0.42	0.6-1.0	1.0 MAX.	19-21	19-21	40 MIN	3.5-4.5	3.5-4.5	3.0-4.5	-----	-----	BORON 0.005	5.0 MAX.
1723 ALLEGHENY S-816B (C)	1723 S-816B	S-816B	0.32-0.42	0.6-1.0	1.0 MAX.	19-21	19-21	BAL. (42)	3.5-4.5	3.5-5.0	3.0-4.5	-----	-----	BORON 0.005	5.0 MAX.
8,CO/BAL43.5,CR26,FE3,M110,M15	1724 HE-1049	HE-1049	0.40	0.6	0.8	26	10	BAL. (43.6)	-----	15	-----	-----	-----	0.40	3.0 MAX.
8,CO/BAL47.3,CR31.8,CR12.95,N19.9,W7.85,Y0.13	1725 HELCO 9		0.27	-----	-----	31.8	9.3	BAL. (47.3)	-----	7.85	-----	-----	-----	0.008	5.0 MAX.
8,CO/BAL49.6,CR29.5,M110.5,N7	1726 UCAR ALLOY	FSX-414	0.25	-----	-----	29	10	BAL. (49.6)	-----	7.0	-----	-----	-----	0.01	1.0
1727 ATS 114-G 50.1 (CAST)	1727 ATS 114-G 50.1 (CAST)	FSX 414	0.20-0.30	1.0 MAX.	1.0 MAX.	28.5-30.5	9.5-11.5	BAL. (49.6)	-----	6.5-7.5	-----	-----	-----	0.005-0.015	2.0 MAX.
8,CO/BAL52.5,CR25.5,FE2,M110.5,N7.5	1728 HAYNES ALLOY	31 (CAST)	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	-----	2.0 MAX.
1729 AMS 5342	1729 AMS 5342	X-40,MS-31	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.005-0.015	2.0 MAX.
1730 ASTM A 567, GRADE 2101	1730 ASTM A 567, GRADE 2101	X-40,MS-31	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	6-9	-----	-----	-----	-----	2.0 MAX.
1731 VIRGO 86	1731 VIRGO 86	X-40,MS-31	0.45-0.55	1.0 MAX.	1.0 MAX.	24-26	10-5	BAL. (52.5)	-----	7-8	-----	-----	-----	-----	2.0 MAX.
1732 KOPPERS K-66	1732 KOPPERS K-66	X-40,MS-31	0.5	-----	-----	25-5	10.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.01	2.0
1733 X-40	1733 X-40	X-40,MS-31	0.50	-----	-----	25-5	10.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.01	2.0
1734 HS-31	1734 HS-31	X-40,MS-31	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	-----	2.0 MAX.
1735 AMS 5382	1735 AMS 5382	X-40,MS-31	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	-----	2.0 MAX.
1736 STELLITE X-40	1736 STELLITE X-40	X-40,MS-31	0.50	-----	-----	26.8	10.5	BAL. (52.5)	-----	7.5	-----	-----	-----	-----	2.0 MAX.
1737 ROSS VAC 83	1737 ROSS VAC 83	X-40,MS-31	0.40-0.55	0.5-1.0	0.5-1.0	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	-----	2.0 MAX.
1738 BS 1346/2,ANC 13 (C)	1738 BS 1346/2,ANC 13 (C)	X-40,MS-31	0.40-0.55	0.5-1.0	0.5-1.0	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.01	2.0
1739 BS 1346/2,ANC 13 (C)	1739 BS 1346/2,ANC 13 (C)	X-40,MS-31	0.40-0.55	0.5-1.0	0.5-1.0	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.01	2.0
1740 SPI 204	1740 SPI 204	X-40,MS-31	0.50	-----	-----	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.4	2.0 MAX.
1741 SPI 204	1741 SPI 204	X-40,MS-31	0.50	-----	-----	24.5-26.5	9.5-11.5	BAL. (52.5)	-----	7-8	-----	-----	-----	0.4	2.0 MAX.
1742 AMSI G81,40,MS-31 (C)	1742 AMSI G81,40,MS-31 (C)	STELLITE 31	0.45-0.55	1.0 MAX.	1.0 MAX.	24	10	BAL. (52.5)	-----	7.5	-----	-----	-----	-----	1.5
1743 GIKHEVES-31,X-40	1743 GIKHEVES-31,X-40	HAYNES 31,MS31,X-40	0.50	-----	-----	24	10	BAL. (52.5)	-----	7.5	-----	-----	-----	-----	2.0
1744 UCAR ALLOY X-40	1744 UCAR ALLOY X-40	X-40,MS-31	0.5	-----	-----	24	10	BAL. (52.5)	-----	7.5	-----	-----	-----	-----	2.0
1745 STELLITE X-40	1745 STELLITE X-40	X-40,ANC 134HS31	0.25	-----	-----	24.2	10.5	BAL. (53.2)	-----	7.5	-----	-----	-----	0.01	2.0
1746 X-45	1746 X-45	X-45	0.25	-----	-----	24.2	10.5	BAL. (53.2)	-----	7.5	-----	-----	-----	0.010	2.0
1747 UCAR ALLOY X-45	1747 UCAR ALLOY X-45	X-45	0.25	-----	-----	24.5	10.5	BAL. (53.2)	-----	7.0	-----	-----	-----	-----	2.0
8,CO/BAL54.9,CR19,FE1,MH1.2,M110,M15	1748 HAYNES STELLITE	NO.36	0.40	1.2	0.5	19	10	BAL. (54.9)	-----	15	-----	-----	-----	0.03	1.0
8,CO/BAL55.1,CR23.5,FE0.7,M110,TAX.5,T10.25,N7	1749 BS 3146/3 VMA 4 (CAST)	MH 503	0.55-0.65	0.10 MAX.	0.40 MAX.	22.5-24.25	9-11	BAL. (55.1)	-----	6.5-7.5	-----	0.15-0.35	-----	0.01 MAX.	1.5 MAX.
8,CO/BAL59.4,CR21.5,TAX.4,M10.25,N2	1750 MAR-M ALLOY 302 (CAST)	MAR-M 302	0.78-0.93	0.10 MAX.	0.1-0.4	20-23	9-11	BAL. (58.4)	-----	9-11	-----	-----	-----	0.010 MAX.	0.75-1.5
1751 SN 302	1751 SN 302	MAR-M 302	0.78-0.93	1-2	1.0 MAX.	20-23	9-11	BAL. (58.4)	-----	9-11	-----	-----	-----	0.010 MAX.	1.5 MAX.
8,CO/BAL60,CR25,M15	1752 HL 1700	(CAST)	0.2	-----	-----	25	15	BAL. (60)	-----	15	-----	-----	-----	0.4	-----
8,CO/BAL61.4,CR30,M10.5,MH.1	1753 HELCO 2		0.25	-----	-----	30	0.5	BAL. (61.4)	-----	8.1	-----	-----	-----	0.12	5.0 MAX.
8,CO/BAL66.7,CR20,MH1.5,T11.2,T2.7	1754 HAYNES ALLOY	NO.151	0.47	1.0 MAX.	1.0 MAX.	20		BAL. (66.7)	-----	12.8	-----	0.15	-----	0.05	2.0 MAX.
8,CO/BAL77,CR22.5,M11.4,N9.5	1755 GILK68YA	(CAST)	0.35-0.45	0.3	1.0	21-24	2.0 MAX.	BAL. (77)	-----	8-11	1.5-2.0	-----	-----	0.02	1.0
8,CO/BAL77,CR26.5,MH5,M11.5	1756 GILK4YA	(CAST)	0.23-0.30	0.5	0.5	25-28	3.0 MAX.	BAL. (77)	5-6	-----	-----	-----	-----	0.02	2.0

TABLE 2. (Continued)

LIME	ALLOY	MANE DR	COMMON NAME DR	DTMERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP V - COBALT-BASE ALLOYS (Continued)										
B,AL2.75-CO37.5-CR10.5-FE1.6-MB/CB12.2-M124.5-M12	1718	N-205			C-0078	US			WROUGHT FORMS	
B,CO/BAL36-CR19.1-M127-TA2-TI3.8-M12	1719	J-1650		TA2	C-0008	US			WROUGHT FORMS	
B,CO/BAL42-CR20-FE4-MN1.2-Nb4-MB/CB4-N128-M4	1720	CROZIELE MASPA-CO	CASTED IN MIND. PK 50		C-0034	US	AMS 5544	M07001	BA-FG-SM-PL	TURBINE DISCS, SHAFTS, BLADES, FASTENERS.
1721		CASTED IN MIND. PK 50			C-0066	US	ASTM A 461	R30816A8	CASTINGS	HIGH TEMPERATURE APPLICATIONS.
1722		ASTM A 639 GRADE 671	S-816		STO.	US	ASTM A 461	R30816A8	BA-FG-FG STOCK	HIGH TEMPERATURE APPLICATIONS.
1723		ALLEGHEMY S-816B (C)	S-816B		C-0066	US	ASTM A 461	R30816A8	CASTING	HIGH TEMPERATURE APPLICATIONS.
B,CO/BAL43.6-CR26-FE3-M10-M15	1724	NE-1049			C-0068	US			INVESTMENT CASTINGS	JET ENGINE AND GAS TURBINE PARTS.
B,CO/BAL47.3-CR31.6-CU2.95-M19.9-M7.85-Y0.13	1725	MELCO 9		Y0.13,CU2.95		US				
B,CO/BAL49.6-CR29.5-M10.5-M7	1726	UCAR ALLOY FSX-414	FSX-414		C-0161	UK			BA	
1727		AT5 114-C 50.1 (CAST)	FSX 414	S0.04MAX,P0.04MAX.	C-0151	57	2.4986		CASTINGS	
B,CO/BAL52.5-CR25.5-FE2-M10.5-M7.5	1728	MAYNES ALLOY 31(CAST)	X-40-MS-31		C-0068	US	AMS 5382	R30031	INVESTMENT AND CAST	GAS TURBINE PARTS, NOZZLE VANES.
1729		(CAST)	X-40-MS-31		STD.	US	AMS 5382	R30031	INVESTMENT CASTINGS	TURBINE BLADES-VANES-STRENGTH T011500F/816C.
1730		ASTM A 567-GRADE 21C	X-40-MS-31	S0.04MAX,P0.04MAX.	STD.	PR	ASTM A 567	R30031	INVESTMENT CASTINGS	
1731		VIRGO 86	X-40-MS-31		C-0129	US	AMS 5382	R30031	INVESTMENT CASTINGS	JET ENGINE AND GAS TURBINE BLADES.
1732		COBALT RS K-66	X-40-MS-31		C-0116	US	AMS 5382	R30031	INVESTMENT CASTINGS	HIGH TEMP. CASTINGS, CHEMICAL PLANT PARTS.
1733		COBALT RS K-66	X-40-MS-31		C-0116	US	AMS 5382	R30031	INVESTMENT CASTINGS	TURBINE BLADES AND VANES.
1734		MS-31	X-40-MS-31		C-0151	GY	2.44670 LM	N07713	INVESTMENT CASTINGS	TURBINE BLADES AND VANES.
1735		STELLITE X-40	X-40-MS-31	S0.04MAX,P0.04MAX.	STD.	US	AMS 5382	R30031	INVESTMENT CASTINGS	TURBINE BLADES-VANES-STRENGTH T011500F/816C.
1736		STELLITE X-40	X-40-MS-31		C-0068	US	AMS 5382	R30031	INVESTMENT CASTINGS	JET ENGINE PARTS.
1737		ROSS VAC 83	X-40-MS-31		C-0065	UK	MSR 7049	R30031	INVESTMENT CASTINGS	
1738		85 3146/2 AMC 13 (C)	X-40-MS-31		STD.	UK	BS 3146 Pt.2	R30031	INVESTMENT CASTINGS	
1739		85 3146/2 AMC 13 (C)	X-40-MS-31		STD.	UK	BS 3146 Pt.2	R30031	INVESTMENT CASTINGS	
1740		SPIN 284	X-40-MS-31		C-0169	US	AMS 5382	R30031	CASTINGS	
1741		ANSI G31.40 (MS-31) (C)	STELLITE 31		C-0169	US	AMS 5382	R30031	CASTINGS	
1742		CINQUEVINS-31,X-40	MAYNES 31-MS31,X-40		STD.	US		R30031	CASTINGS	
1743		UCAR ALLOY X-40	X-40-MS-31		STD.	US		R30031	BA-CASTINGS	GAS TURBINE PARTS, NOZZLE VANES.
1744		STELLITE X-40	X-40-MS-31		C-0113	CH	AMS 5382	R30031	INVESTMENT CASTINGS	
1745		X-45	X-45		C-0078	US		R30031	INVESTMENT CASTINGS	NOZZLE VANES.
1746		UCAR ALLOY X-45	X-45		C-0161	UK		R30031	BA-CASTINGS	
B,CO/BAL54.9-CR19-FE1-MN1.2-M10-M15	1748	MAYNES STELLITE MD.36	MAYNES ALLOY MD. 36		C-0068	US			INVESTMENT CASTINGS	JET ENGINE AND GAS TURBINE PARTS.
B,CO/BAL55.1-CR23.5-FE0.7-MN10-TA3.5-TI0.25-M7	1749	BS 3146/3 WNA (CAST)	NN 509	TA3.4,2R0.1-0.6,50.015	STD.	UK	BS 3143PT.3		INVESTMENT CASTINGS	VACUUM MELTED CASTINGS.
B,CO/BAL58.4-CR21.5-TA9-M10.2R0.2	1750	MAR-N 302	MAR-N 302	TA8-40 700 500	C-0069	US			SHELL INVESTMENT CAST.	JET ENGINE BLADES, VANES.
1751		SM 302	MAR-N 302	TA8-10+2R0.10-0.30	C-0069	US			SHELL INVESTMENT CAST.	GAS TURBINE BLADES, AND BUCKETS,NOZZLE VANES.
B,CO/BAL60.4-CR25-M15	1752	ML 1700			C-0008	US			CASTINGS	
B,CO/BAL61.4-CR30-M10.5-M6.1	1753	MELCO 2		Y0.15		US				
B,CO/BAL64.7-CR20-MN1.5-TI1.2-M12.7	1754	MAYNES ALLOY MD.151 C	MAYNES ALLOY MD. 151	DTMERS 1.5	C-0068	US			INVESTMENT CASTINGS	GAS TURBINE BLADES, VANES.
B,CO/BAL77.7-CR26.5-M05-M14.5	1755	GILK65A			C-0076	UR			INVESTMENT CASTINGS	UNKNOWN.
B,CO/BAL77.7-CR26.5-M05-M14.5	1756	GILK65A	MAYNES ALLOY 21		C-0076	UR			INVESTMENT CASTINGS	UNKNOWN.

CHEMICAL COMPOSITION-WEIGHT PERCENT														
LINE	ALLOY NAME OR ALLOY DESIGNATION	CONVNO NAME OR DESIGNATION	CARBON	NICKEL	CHROMIUM	COBALT	NOLYBDEUM	TUNGSTEN	COLUMBIUM	NIOBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP V = COBALT-BASE ALLOY (Continued)														
1757	N-204	8-C040-5-CR10-5-FE16-NB/CB1-2-NI24-5-M12	0.07	26.5	10.5	40.5	---	12	1.2	---	---	---	0.22	1.6
CO/BAL33.6-CR25-FE1-NI33-M06														
1750	ALLOY 6059	ALLOY 6059	0.40	3	25	BAL. (33.6)	6.0	---	---	---	---	---	---	1.0
CO/BAL35.2-CR25-FE1-N05-5-NI32														
1759	HAYNES ALLOY NO. 27	HAYNES ALLOY NO. 27	0.40 NOM.	32 NOM.	25 NOM.	BAL. (35.2)	5.5 NOM.	---	---	---	---	---	---	1.0
1760	AMS 5378	HAYNES ALLOY NO. 27	0.35-0.45	30-35	23-26	BAL. (35.2)	4.5-6.5	---	---	---	---	---	---	2.0 MAX.
1761	CAP1 222	HAYNES STELLITE NO.2	0.40	32	25	BAL. (36.2)	5.5	---	---	---	---	---	---	1.0
CO/BAL39.2-CR22-FE1-5-LA-NI22-M14														
1762	UNITEMP 100	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	0.015 MAX.	3.0 MAX.
1763	AL166-1	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	---	3.5 MAX.
1764	AL166-2	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	---	3.0 MAX.
1765	AMS 5600	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	0.015 MAX	3.0 MAX.
1766	AMS 5772	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	0.015 MAX	3.0 MAX.
1767	AMS 5001	HAYNES ALLOY NO. 100	0.05-0.15	20-24	20-24	BAL. (39.2)	---	13-16	---	---	---	---	0.015 MAX	3.0 MAX.
CO/BAL43.0-CR20-2-FE2.5-N04-NB/CB4-NI20-2-M4														
1760	A75-113	---	0.4	16.5-22.5	10.5-22.0	BAL. (40.8)	4.0	4.0	4.0	---	---	---	---	5.0 MAX.
CO/BAL42.3-CR25-FE3-MN1-M04-NB/CB2-NI20-M2														
1769	V-36	V-36	0.27	20	25	BAL. (42.3)	4.0	2.0	2.0	---	---	---	---	3.0
1770	UNITEMP V-36	V-36	0.25	20	24	BAL. (42.3)	4.0	2.3	1.7	---	---	---	---	1.0
1771	ALLEGHEST V-36	V-36	0.25	20	20	4.4	---	2.0	2.0	---	---	---	---	BAL. (3-8)
1772	S-344	V-36	0.30	20	25	4.6	---	2.0	2.0	---	---	---	---	1.0
1773	V-36	V-36	0.27	20	25	BAL. (42.3)	4.0	2.0	2.0	---	---	---	---	3.0
CO/BAL42-CR20-FE4-MN1-2-M04-NB/CB4-NI20-M4														
1774	S-016 ALLOY (THROUGHT)	S-016-AISI 671	0.3-0.45	10-22	10-22	BAL. (42)	3.5-5.5	3.5-6	2.5-4.0	---	---	---	---	4.0
1775	S-016 ALLOY (THROUGHT)	S-016-AISI 671	0.30	20	20	BAL. (42)	4.0	4.0	4.0	---	---	---	---	3.0
1776	S-016 ALLOY (THROUGHT)	S-016-AISI 671	1.2	20	20	BAL. (42)	4.0	4.0	4.0	---	---	---	---	3.0
1777	ALLEGHEST METAL S-016	S-016-AISI 671	0.32-0.42	20	20	4.2	4.0	4.0	4.0	---	---	---	---	5.0 MAX.
1778	UNITEMP S-016	S-016-AISI 671	1.35	20	20	BAL. (42)	3.75	4.2	4.1	---	---	---	---	5.0 MAX.
1779	AMS 5534-AISI 671	S-016-AISI 671	0.32-0.42	10.5-21.5	10.5-21.5	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1780	AMS 5765-AISI 671	S-016-AISI 671	0.32-0.42	19-21	19-21	4.0 MIN	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1781	ASTM A 639, GRADE 671	S-016-AISI 671	0.32-0.42	19-21	19-21	4.0 MIN	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1782	AISI 671	S-016-AISI 671	0.32-0.42	19-21	19-21	4.0 MIN	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1783	CAPT 201	S-016-AISI 671	0.30	20	20	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	3.0
1784	EN 4909	S-016-AISI 671	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1785	ALUMINIT 4909 (NH) (C)	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1786	VACUUMCHURN 8-INH (C)	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1787	ALUMINIT 4909	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1788	ALUMINIT 4909	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1789	ALUMINIT 4909	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	3.5-4.5	3.5-4.5	---	---	---	---	5.0 MAX.
1790	WERKSTOFF 2.4989 OIN	S-016-RGT 35,AMS 553	0.38	20	20	BAL. (42)	4.0	4.0	4.0	---	---	---	---	5.0 MAX.
CO/BAL42-CR20-FE4-MN1-2-M04-NB/CB4-NI20-ZR0.2														
1791	RGT 24	S-016	0.35-0.45	19-21	19-21	BAL. (42)	3.5-4.5	---	3.5-4.5	---	---	---	---	5.0 MAX.
CO/BAL46.3-CR27.5-FE20-M01-5-NI13-ST1														
1792	HAYNES ALLOY NO. 150	HAYNES ALLOY NO. 150	0.00	3.0 MAX.	27.5	BAL. (46.3)	1.5	---	---	---	---	---	---	20
CO/BAL47.9-CR19-FE16-N02-2-NB/CB1-4-NI10-5-V3														
1793	JE550P G.32	---	0.27	10.5	19	BAL. (47.9)	2.2	---	1.4	---	---	---	---	16
CO/BAL47-CR20-FE1-N04-NB/CB4-NI20														
1794	ATS 113-G (CAST)	G-COOR 20 NI 20 W	0.40	20	20	BAL. (47)	4.0	4.0	4.0	4.0	---	---	---	2.0 MAX.
CO/BAL49.6-CR20-FE21														
1795	PHOENIX R 50 CO	UN CO 50	0.05-0.10	---	27-29	45-50	---	---	---	---	---	---	---	BAL. (21)
1796	650CO (OIN COCR20FE)	UN CO 50	0.05-0.10	---	27-29	45-50	---	---	---	---	---	---	---	BAL. (21)
1797	NOVOTHERN 125A	UN CO 50	0.10	1.0 MAX.	26-30	4.0	---	---	---	---	---	---	---	20
CO/BAL49.6-CR29-5-MN1-FE2-NI10-5-M2														
1790	FSX-414 (CAST)	FSX-414	0.35	10	29.5	BAL. (52)	---	7.0	1.4	---	---	---	0.01	1.0

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP V - COBALT-BASE ALLOYS (Continued)									
B1	CD40A-5, CR18-5, FE16-NB/CB1-2, NI24-5, NI2 N-204			C-0078	US				
CD/8AL33-6, CR25-4, FE14, NI33-N06		ALLOY 6059		C-0068	US				JET ENGINE COMPONENTS.
1750	ALLOY 6059								
CD/8AL35-2, CR25-4, FE14, NI33-N06		ALLOY 6059		C-0068	US				TURBINE BLADES.
1759	HAYNES ALLOY NO. 27			STD.	US	AMS 5378	R30027	INVESTMENT CASTINGS	TURBINE BLADES, BUCKETS, STRENGTH TO11500F/816C.
1760	ANS 5378						R30027	INVESTMENT CASTINGS	
1761	CAP1 222			C-0169	US	AMS 5378	R30027	INVESTMENT CASTINGS	
CD/8AL39-2, CR22-4, FE14, NI22-N14				C-0072	US				AFTERBURNERS NOZZLES COMBUSTION CHAMBERS.
1762	UNITEMP 100			STD.	US	AMS 5608	R30148	INVESTMENT CASTINGS	FOR SEVERE CORROSION CONDITIONS.
1763	AIR 9165-211			STD.	US	AMS 5608	R30148	INVESTMENT CASTINGS	BETTER OXIDATION RESISTANCE THAN HASTELLOY X.
1764	HAYNES ALLOY NO. 100			C-0068	US	AMS 5608	R30148	INVESTMENT CASTINGS	FORNED OR DRAWN PARTS TO14800F/982C.
1765	AMS 5608			STD.	US	AMS 5608	R30148	INVESTMENT CASTINGS	FORNED OR DRAWN PARTS TO14800F/982C.
1766	AMS 5772			STD.	US	AMS 5772	R30148	INVESTMENT CASTINGS	FORNED OR DRAWN PARTS TO14800F/982C.
1767	AMS 5601			STD.	US	AMS 5601	R30148	INVESTMENT CASTINGS	FUSION WELDING ELECTRODE FOR COBALT BASE ALLOYS.
CD/8AL40-8, CR20-2, FE2-5, NI4-NB/CB4-NI20-2, NI4				C-0125	GY				JET ENGINE PARTS.
1768	ATS-113								
CD/8AL42-3, CR25-4, FE14, NI11-2, NI4-NB/CB4-NI20-N2				C-0066	US				HIGH-TEMPERATURE SHEETS.
1769	V-36			C-0066	US				JET ENGINE PARTS, SUPERCHARGER PARTS.
1770	ALTEMP V-36			C-0066	US				HIGH-TEMPERATURE APPLICATIONS.
1771	ALLEGHENY V-36			C-0066	US				
1772	S-844			C-0066	US				
1773	V-36			C-0066	US				
CD/8AL42-3, CR25-4, FE14, NI11-2, NI4-NB/CB4-NI20-N2				C-0066	US				GAS TURBINE BLADES, BOLTS, SPRINGS.
1774	S-816 ALLOY (NROUGHT)			C-0066	US	AMS 5534	R30016	INVESTMENT CASTINGS	GAS TURBINE BLADES.
1775	S-816 ALLOY (CAST)			C-0066	US	AMS 5534	R30016	INVESTMENT CASTINGS	JET ENGINE/GAS TURBINE PARTS.
1776	ALLEGHENY METAL S-816			C-0066	US	AMS 5534	R30016	INVESTMENT CASTINGS	JET ENGINE/SUPERCHARGER PARTS, BLADES.
1777	ALTEMP S-816			C-0072	US	AMS 5534	R30016	INVESTMENT CASTINGS	JET ENGINE PARTS, TURBINE BLADES.
1778	UNITEMP S-816			STD.	US	AMS 5534	R30016	INVESTMENT CASTINGS	WELDED TURBINE NOZZLES, BURNER LINERS, TAIL PIPES.
1779	ANS 5534, AISI 671			STD.	US	AMS 5534	R30016	INVESTMENT CASTINGS	TURBINE ROTORS, SHAFTS, BUCKETS, BOLTS TO11500F/816C.
1780	ANS 5765, AISI 671			STD.	US	AMS 5765	R30016	INVESTMENT CASTINGS	TURBINE ROTORS, SHAFTS, BUCKETS, BOLTS TO11500F/816C.
1781	ANS 5765, AISI 671			STD.	US	AMS 5765	R30016	INVESTMENT CASTINGS	TURBINE ROTORS, SHAFTS, BUCKETS, BOLTS TO11500F/816C.
1782	ATS1 671			STD.	US	AMS 5765	R30016	INVESTMENT CASTINGS	JET ENGINE PARTS, BOLTING.
1783	CAP1 201			C-0169	US	AMS 5534	R30016	INVESTMENT CASTINGS	GAS TURBINE PARTS AND COMBUSTION CHAMBERS.
1784	EM 4989			C-0195	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1785	ALNEMIT 4989 (N), (C)			C-0175	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1786	VACUTHERM 8-13H			C-0153	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1787	LASTE 4989			C-0186	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1788	UNBOTHERN 20 CO 45			C-0175	AU	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1789	UNBOTHERN 20 CO 45			STD.	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
1790	NEKSTOFF 2-4989 DIN			STD.	GY	2-4989 DIN	R30016	INVESTMENT CASTINGS	COMBUSTION CHAMBERS AND PARTS FOR GAS TURBINES.
CD/8AL42-3, CR20-2, FE4-NI11-2, NI4-NB/CB4-NI20-N2				C-0160	GY				GAS TURBINE COMPONENTS AND COMBUST. CHAMBERS.
1791	RGT 24								
CD/8AL46-3, CR27-5, FE20-NI1-5, NI13-S11				C-0068	US				RESISTS THERMAL SHOCK, HIGH-TEMP. CORROSION.
1792	HAYNES ALLOY NO. 150								
CD/8AL47-9, CR19-4, FE16-NI2-2, NI6/CB1-4, NI10-5, V3				C-0147	UK				GAS TURBINE DISCS, SHAFTS AND ROTOR BLADES.
1793	JESSOP C-32								
CD/8AL47-9, CR19-4, FE16-NI2-2, NI6/CB1-4, NI10-5, V3				C-0151	CY				NOZZLE GUIDE VANES, COMBUSTION CHAMBERS, RINGS.
1794	ATS 113-6								
CD/8AL49-6, CR28-4, FE21				C-0170	AU				
1795	PHOENIX R 50 CO			C-0170	AU	2-4778 DIN			
1796	R50CO (OIN COOR20FE)			C-0153	GY	2-4778 DIN			
1797	HVOBOTHERN 125A								
CD/8AL49-6, CR29-5, NI11-2, FE2-NI18-5, NI2				C-0878	US				GAS TURBINE VANES.
1798	FSX-414								

TABLE 2. (Continued)

CHEMICAL COMPOSITION, WEIGHT PERCENT															
LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP V - COBALT-BASE ALLOYS (Continued)															
CO/BAL50.3-CR26-FE1-M06-N15															
1799	AMS 5330 (ICAST)	HAYNES ALLOY NO. 30	0.40-0.50	1.0 MAX.	1.0 MAX.	24-28	14-16	BAL. (50.3)	5.5-6.5						2.0 MAX.
1800	HAYNES ALLOY 30(CAST)	HAYNES ALLOY NO. 30	0.30	0.60	0.60	26	15	BAL. (50.3)	6.0						1.0
1801	CAP1 221 (CAST)	HAYNES STELLITE NO.30	0.45	0.60	0.60	26	15	BAL. (50.3)	6.0						1.0
CO/BAL50.5-CR31.8-N19.9-W7.85-Y0.1															
1802	MELCO 10		0.42			31.8	9.9	BAL. (50.5)		7.85		3.0-3.3	1.4-1.6		
CO/BAL50-CR28.7-WF0.15-NI10.7-TA3.1-W7.4-Y0.18															
1803	MELCO 14		0.40	0.30		28.7	10.7	BAL. (50)		7.4		3.0-3.3	1.4-1.6		
CO/BAL51.3-CR26-FE2-M05.7-N15															
1804	ALLOY 422-19	422-19	0.35-0.50	0.30	0.50	23-29	13-17	BAL. (51.3)	6.0						2.0 MAX.
CO/BAL52-CR20-NI20-TA7.5-ZR0.5															
1805	MAR-M ALLOY 918	MAR-M 918	0.03-0.10	0.2 MAX	0.2 MAX	19-21	18-22	BAL. (52)							0.50 MAX.
CO/BAL52.5-CR25.5-FE2-MI10.5-W7.5															
1806	ATS 114-G (ICAST)	G-COOR 25 NIM HS31	0.50			25.5	10.5	BAL. (52.5)		7.5					2.0 MAX.
CO/BAL52.9-CR20-FE3-MN1.5-NI10-N15															
1807	WF-11	L-605-WF-11-HS-25	0.10			20	0	BAL. (52.9)		15					3.0 MAX.
1808	WF-11	L-605-WF-11-HS-25	0.15-0.15	2.0 MAX.	1.0 MAX.	19-21	9-11	BAL. (52.9)		3.0 MAX.					3.0 MAX.
1809	L-605	L-605-WF-11-HS-25	0.05-0.15	2.0 MAX.	1.0 MAX.	19-21	9-11	BAL. (52.9)		3.0 MAX.					3.0 MAX.
1810	HAYNES ALLOY NO. 25	L-605-WF-11-HS-25	0.10	1.5	0.5	20	10	BAL. (52.9)		15					3.0 MAX.
1811	ALLOY L-605	L-605-WF-11-HS-25	0.08	1.6	0.6	21	10.5	BAL. (52.9)		15.5					1.6
1812	CM L-605	L-605-WF-11-HS-25	0.12	1.65		19.5	9.9	BAL. (52.9)		15.2					1.6
1813	CRUQULE WF-11	L-605-WF-11-HS-25	0.15	1.50	0.5	19-21	9-11	BAL. (52.9)		15					1.0
1814	EASTERN NO. 605	L-605-WF-11-HS-25	0.05-0.15	1.2	0.50	19-21	9-11	BAL. (52.9)		14-16					1.0
1815	WERNER NO. 605	L-605-WF-11-HS-25	0.05-0.15	1.2	1.0	19-21	9-11	BAL. (52.9)		14-16					1.0 MAX.
1816	NICHELVAZ L-605	L-605-WF-11-HS-25	0.05-0.15	1.65		20-21	15.1	BAL. (52.9)		15					3.0 MAX.
1817	UNITEMP L-605	L-605-WF-11-HS-25	0.12	1.65		20-21	15.1	BAL. (52.9)		15					1.6
1818	AMS 5937-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	0.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1819	AMS 5796-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1820	AMS 5797-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1821	AMS 7236-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1822	ASTM F 90-AISI 670	L-605-WF-11-HS-25	0.05-0.15	2.0 MAX.	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1823	ASTM F 90-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1824	WERKSTOFF 2.4564 LN	L-605-WF-11-HS-25	0.05-0.15	1.2	0.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1825	AMS 5759-AISI 670	L-605-WF-11-HS-25	0.05-0.15	1.2	0.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1826	ANFDR KC 20-MN	HS 25-WF-11-L-605	0.05-0.15	1.2	0.30 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1827	AECHA CO-P 92-HT	HS 25-WF-11-L-605	0.05-0.15	1.2	0.30 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1828	CAPT 209 (ICAST)	L-605-WF-11-AISI 670	0.10	1.50	0.50	20	10	BAL. (52.9)		15					
1829	SPIN 209 (ICAST)	L-605-WF-11-AISI 670	0.10	1.50	0.50	20	10	BAL. (52.9)		15					
1830	VACCUUMHEM 8-13	HS-25-WF-11-L-605	0.10	1.50	1.0 MAX.	20	10	BAL. (52.9)		15					
1831	GIRKHEYES-25, L-605	HAYNES 25-L-605-WF-1	0.10			20	10	BAL. (52.9)		15					
1832	CORALLOY 4967	HS 25-L-605-2.49670IN	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1833	ALACRITE X-S-H	HS25-L-605-2.4964 LN	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1834	TURBOTHERM 20 CO 50	HS25-L-605-2.4964 LN	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1835	LASTE 4967	L-605-MS 25-2.4964 LN	0.05-0.15	1.2	1.0 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1836	AIR 9165-201	HS-25-WF-11-L-605	0.05-0.15	1.2	0.30 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1837	EN21 61(PRI)-2.4964 LN	HS 25-L-605-WF-11	0.05-0.15	1.0-2.0	0.4 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1838	EN21 61(PRI)-2.4964 LN	HS 25-L-605-2.49670IN	0.05-0.15	1.0-2.0	0.4 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1839	EN21 64(PRI)-2.4964 LN	HS 25-L-605-2.49670IN	0.05-0.15	1.0-2.0	0.4 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1840	EN21 65(PRI)-2.4964 LN	HS 25-L-605-2.49670IN	0.05-0.15	1.0-2.0	0.4 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1841	EN21 66(PRI)-2.4964 LN	HS 25-L-605-2.49670IN	0.05-0.15	1.0-2.0	0.4 MAX.	19-21	9-11	BAL. (52.9)		14-16					3.0 MAX.
1842	WITTEN OA 2040	OINCOCR20M5H1	0.10			20	10	BAL. (52)		15					3.0 MAX.
1843	WERKSTOFF 2.4967 OIN	OINCOCR20M5H1	0.10			20	10	BAL. (52)		15					3.0 MAX.
1844	WERKSTOFF 2.4964 LN	CINCOCR20M5H1	0.05-0.15	1.2	0.4 MAX	19-21	9-11	BAL. (52)		14-16					3.0 MAX.
CO/BAL53-CR29-FE6-M01.4-NI6-W4.5															
1845	HONNET SUPER-6 (ICAST)	HONNET SUPER-6	0.9-1.4			27-31	6.0 MAX.	BAL. (53)	1.5 MAX.	3.5-5.5					6.0 MAX.
CO/BAL53.5-CR20-MN1.5-NI10-M15															
1846	BS HR 240		1.5			20	10	BAL. (53.5)		15					
1847	BS HR 40		1.5			20	10	BAL. (53.5)		1.5					
1848	WERKSTOFF 2.4630 LN	OINNCR20H1	0.05-0.15	1.0 MAX.	1.0 MAX.	18-21	BAL. (10)			5.0 MAX.					5.0 MAX.
1849	CINCOCR20M5H1	OINCOCR20M5H1	0.10	1.5	1.0 MAX.	20	10	BAL. (53.5)		15					
1850	WITTEN OA 2040	CINCOCR20M5H1	0.10	1.5	1.0 MAX.	20	10	BAL. (53.5)		15					
CO/BAL53.5-CR26-FE2-MI11.1-W7.5															
1851	WERKSTOFF 2.4682 LN	AECMA CO-C-91 HT	0.45-0.55	1.0 MAX	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (53.5)		7-8					2.0 MAX.

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STATION (Continued)	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
CO/BAL50.3-GR26-FE1.4-Ni0.5-Ni15									
1799	HAYES ALLOY NO. 30 (CAST)			STO.	US	ANS 5380	R30030	INVESTMENT CASTINGS	TURBINE BLADES, BUCKETS.
1800	HAYES ALLOY 30(CAST)			C-0068	US	ANS 5380	R30030	INVESTMENT CASTINGS	TURBINE BLADES.
1801	CAPI 221			C-0169	US	ANS 5380	R30030	CASTINGS	
GO/BAL50.5-GR31.0-Ni9.9-N7.85-Y0.1									
1802	MELCO 10		Y0.10		US				
CO/BAL50.20-7-HF0.15-Mn10.7-TA3.1-N7.4-Y0.10			Y0.10,TA3.1,HF0.15		US				
1803	MELCO 14				US				
CO/BAL51.3-GR26-FE2.4-M05.7-Ni15					US				
1804	ALLOY 422-19			C-0068	US				JET ENGINE COMPONENTS.
GO/BAL52.0-GR20-Ni20.7-TA7.5-ZR0.5					US				
1805	HAR-H ALLOY 910	HAR-H 910	TA6.5-8.5-ZR0.05-0.15,S0.03C-0069		US				HIGH-TEMP. SHEETS, GAS TURBINE PARTS, WELDING.
GO/BAL52.5-GR25.5-FE2-Ni10.5-N7.5					GY				
1806	ATS 114-G	G-COOR 25 NIN HS31		C-0151	GY	2.4966			NOZZLE GUIDE VANES, SUPERCHARGER WHEELS.
CO/BAL52.9-GR20-FE3.3-Mn1.5-Ni10.5-Ni15					US				
1807	HAYES ALLOY NO. 25		OTHERS 3.0	G-0068	US	ANS 5759	R30605	BA,SH,ST,PL,M,FG,GAST.	JET ENGINE PARTS, SHEETS.
1808	NF-11	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0034	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1809	HAYES ALLOY NO. 25	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0066	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1810	HAYES ALLOY NO. 25	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	C-0068	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1811	ALLOY L-605	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	C-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1812	CH L-605	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1813	CRUCIBLE WF-11	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1814	EASTERN M0. 605	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	C-0107	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1815	HOMMET-25	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1816	NICKELVAG L-605	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1817	ALLOY 422-19	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	C-0072	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1818	AMS 5796-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ANS 5796	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1819	AMS 5796-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ANS 5796	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1820	AMS 5796-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ANS 5796	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1821	AMS 7236-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ANS 7236	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1822	ASTH F 90-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ASTH F 90	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1823	ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	US	ATSI 670	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1824	NEKSTOFF 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	GY	2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1825	NEKSTOFF 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	GY	2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1826	AFNOR NC-A151 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	NC-A151 670	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1827	AFNOR NC-A151 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	NC-A151 670	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1828	CAPI 209	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1829	SPTN 209	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1830	VACUUMETHER 8-13	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1831	CIRKETHES-25, L-605	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1832	CORALLOY 4967	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1833	ALAGRITE X-S-M	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1834	TURBOTHERD 20 CO 50	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1835	ASTH F 90-ATSI 670	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	G-0169	US	ANS 5759	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1836	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1837	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1838	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1839	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1840	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1841	EN2162(PRI) 2.4964 LN	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	FR	EN2162(PRI) 2.4964 LN	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1842	WITTEN OA 2040	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	EU	WITTEN OA 2040	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1843	NEKSTOFF 2.4967 8N	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	GY	2.4967 8N	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
1844	NEKSTOFF 2.4967 8N	L-605-NF-11-HS-25	S0.03MAX,P0.04 HAX,	STO.	GY	2.4967 8N	R30605	BA,SH,PL,M,T,FG,ST	JET ENGINE PARTS, SHEETS.
GO/BAL53.0-GR26-FE6-H01.4-Ni6-Ni.5					US				
1845	HOMMET SUPER-6 (CAST)	HOMMET SUPER-6		C-0022	US				TURBINE BLADES, HOT WORK PUNCHES, VALVE PARTS.
GO/BAL53.5-GR20-Mn1.5-Ni10.5-Ni15					UK				
1846	BS HR 240			STO.	UK	BS HR 240			
1847	BS HR 40			STO.	UK	BS HR 40			
1848	NEKSTOFF 2.4638 LN			STO.	GY	2.4638 LN			
1849	DINOCOR2015H			STO.	GY	2.4638 LN			
1850	NITTEN OA 20401			STO.	GY	2.4638 LN			
GO/BAL53.5-GR26-FE2-Ni11.7-N7.5					GY				
1851	NEKSTOFF 2.4682 LN	AECOA CO-C-91 HT		STO.	GY	2.4682 LN			

TABLE 2. (Continued)

LINE		ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	NIOBIUM	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP V - COBALT-BASE ALLOYS (Continued)																	
CO/BAL53.7	CR20.0	MN1.4	NI10.7	1.0	1.42	0.42	20	10	BAL. (53.7)	2.6	10.7	---	---	1.0	---	---	---
1852	WF-31		WF-31	0.15													
CO/BAL54.5	CR25.5	FE2.0	NI10.5	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (54.5)	---	---	---	---	---	---	---	2.0 MAX.
1853	AFMOR K-C25NM		AFMOR K-C25NM	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (54.5)	---	---	---	---	---	---	---	2.0 MAX.
1854	AFMOR K-C25NM		AFMOR K-C25NM	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (54.5)	---	---	---	---	---	---	---	2.0 MAX.
CO/BAL54.7	CR24.0	NI10.3	NI10.2	0.55-0.65	0.1 MAX.	0.4 MAX.	22.5-24.25	11	BAL. (54.7)	---	6.5-7.5	---	---	0.15-0.35	---	0.01 MAX.	1.50 MAX.
1855	MAR-N 509		MAR-N 509	0.60	0.1 MAX.	0.4 MAX.	23.4	10	BAL. (54.7)	---	7.0	---	---	0.25	---	0.01 MAX.	1.5 MAX.
1856	BS 3146/3	YMA 4(CAST)	MAR-N 509	0.60	0.1 MAX.	0.4 MAX.	24	10	BAL. (54.7)	---	7.0	---	---	0.25	---	0.01 MAX.	1.5 MAX.
1857	CAPIVAC IV	(CAST)	MAR-N 509	0.60	0.1 MAX.	0.4 MAX.	21.5	10	BAL. (54.7)	---	7.0	---	---	0.25	---	0.01 MAX.	1.5 MAX.
1858	UCAR ALLOY M-509	(C)	MAR-N 509	0.60	0.1 MAX.	0.4 MAX.	21.5	10	BAL. (54.7)	---	7.0	---	---	0.25	---	0.01 MAX.	1.5 MAX.
CO/BAL55.4	CR20.0	FE2.5	NI10.0	0.05-0.15	1.0-2.0	0.30 MAX.	19-21	9.0-11.5	BAL. (55.4)	---	14-16	---	---	---	---	---	3.0 MAX.
1859	AFMOR K-C25NM		AFMOR K-C25NM	0.05-0.15	1.0-2.0	0.30 MAX.	20	10	BAL. (55.4)	---	15	---	---	---	---	---	3.0 MAX.
1860	XSP			0.55	---	---	26	0	BAL. (55.4)	---	---	---	---	---	---	---	3.0 MAX.
CO/BAL56.2	CR26.0	FE0.5	NI10.0	0.45-0.55	1.0 MAX.	1.0 MAX.	27-31	3.0 MAX.	BAL. (56.2)	---	---	---	---	---	---	---	3.0 MAX.
1861	TURBOTECH 26	CO 60		0.55	---	---	30	3.0 MAX.	BAL. (56.2)	---	4.5	---	---	---	---	---	3.0 MAX.
CO/BAL56.4	CR20.0	FE3.0	NI10.0	0.45-0.55	1.0 MAX.	1.0 MAX.	27-31	3.0 MAX.	BAL. (56.4)	---	---	---	---	---	---	---	3.0 MAX.
1862	HAYNES STELLITE 68			1.1	---	---	27-31	3.0 MAX.	BAL. (56.4)	---	---	---	---	---	---	---	3.0 MAX.
CO/BAL59.0	CR29.0	FE3.0	NI10.0	0.45-0.55	1.0 MAX.	1.0 MAX.	27-31	3.0 MAX.	BAL. (59.0)	1.5 MAX.	---	---	---	---	---	---	3.0 MAX.
1863	HOMMET STANDARD NO. 6			0.9-1.4	---	---	27-31	3.0 MAX.	BAL. (59.0)	1.5 MAX.	---	---	---	---	---	---	3.0 MAX.
CO/BAL61.5	CR21.0	FE2.0	NI10.0	0.45-0.55	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
1864	W-52	(CAST)	W-52	0.45	0.50 MAX.	0.50 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
1865	HAYNES ALLOY MO. 152		W-52	0.45	0.50 MAX.	0.50 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
1866	WALMET HI-52	(CAST)	W-52	0.45	0.50 MAX.	0.50 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
CO/BAL61.5	CR21.0	FE2.0	NI10.0	0.45-0.55	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
1867	CAP1 205	(CAST)	W-52	0.45	0.50 MAX.	0.50 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
1868	SPM 205	(CAST)	W-52	0.45	0.50 MAX.	0.50 MAX.	25-29	1.75-3.75	BAL. (61.5)	---	---	---	---	---	---	---	3.0 MAX.
CO/BAL62.7	CR29.0	FE1.5	NI10.5	0.45-0.55	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1869	HIU-R-17131		STELLITE 6	1.15	0.45	0.55	2.9	1.5	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
CO/BAL62.7	CR27.0	FE1.0	NI10.5	0.45-0.55	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1870	HAYNES STELLITE NO. 21		HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1871	AMS 5305	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1872	ASTM F-75	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1873	ROSS VAC 52	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1874	BS 3531-PT.1	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1875	CAP1 219	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1876	SPM 219	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1877	VITALLUM	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1878	AMS 5305	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1879	AMS 5305	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1880	STELLITE 7	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1881	STELLITE 8	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1882	ZIMALL	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
1883	GILK4	(CAST)	HAYNES STELLITE NO. 21	0.20-0.30	1.0 MAX.	1.0 MAX.	25-29	1.75-3.75	BAL. (62.7)	0.75	4.5	---	---	---	---	---	3.0 MAX.
CO/BAL65.0	CR25.5	FE1.0	NI10.5	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (65.0)	---	7-8	---	---	---	---	---	2.0 MAX.
1884	AFMOR K-C25NM		AFMOR K-C25NM	0.45-0.55	1.0 MAX.	1.0 MAX.	24.5-26.5	9.5-11.5	BAL. (65.0)	---	7-8	---	---	---	---	---	2.0 MAX.
CO/BAL66.7	CR21.5	FE1.0	NI10.0	0.78-0.93	0.10 MAX.	0.1-0.4	20-23	1.50 MAX.	BAL. (66.7)	---	9-11	---	---	---	---	---	0.75-1.50
1885	AFMOR K-C25NM		AFMOR K-C25NM	0.78-0.93	0.10 MAX.	0.1-0.4	20-23	1.50 MAX.	BAL. (66.7)	---	9-11	---	---	---	---	---	0.75-1.50
CO/BAL66.7	CR24.0	FE1.0	NI10.0	0.40-0.50	0.30 MAX.	0.60	24	2.0	BAL. (66.7)	5.0	4-6	---	---	---	---	---	1.0
1886	AMS 5305	(CAST)	HAYNES STELLITE NO. 23	0.40-0.50	0.30 MAX.	0.60	24	2.0	BAL. (66.7)	5.0	4-6	---	---	---	---	---	2.0 MAX.
1887	CAP1 23	(CAST)	HAYNES STELLITE NO. 23	0.40-0.50	0.30 MAX.	0.60	24	2.0	BAL. (66.7)	5.0	4-6	---	---	---	---	---	2.0 MAX.
1888	CAP1 23	(CAST)	HAYNES STELLITE NO. 23	0.40-0.50	0.30 MAX.	0.60	24	2.0	BAL. (66.7)	5.0	4-6	---	---	---	---	---	2.0 MAX.
1889	HAYNES STELLITE 23		HAYNES STELLITE NO. 23	0.40-0.50	0.30 MAX.	0.60	24	2.0	BAL. (66.7)	5.0	4-6	---	---	---	---	---	2.0 MAX.
CO/BAL67.2	CR24.0	FE1.0	NI10.5	0.42	0.3	0.6	24	1.0	BAL. (67.2)	---	5.5	---	---	---	---	---	1.0
1890	ALLOY 61		ALLOY 61	0.42	0.3	0.6	24	1.0	BAL. (67.2)	---	5.5	---	---	---	---	---	1.0

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP V - COBALT-BASE ALLOYS (Continued)									
C07BAL53.7	CR20.0MM1.4-NI10.7Ti1.0-W7.5	AF-31		C-0034	US				
1852	AF-31								
C07BAL54.5	CR25.5-FE2-NI10.5-W7.5	AECA CO-C 91-NI		STD.	EU	CO-C 91-NI			
1853	EN2161(P) 2.4682 LN	AECA CO-C 91-NI		STD.	FR	CO-C 91-NI			
1854	AECA CO-C 91-NI	WERKSTOFF 2.4682 LN							HIGH-TEMPERATURE SHEETS, TURBINE VANES.
C07BAL56.7	CR24.0-NI10.7Ti1.0-W7.5	AF-31		C-0069	US				
1855	AF-31								
1856	BS 3146/3 VMA 4(CAST)	AF-31		C-0065	UK				
1857	CAPTIVAC IV (CAST)	AF-31		C-0169	US				
1858	UCAR ALLOY N-509 (C)	AF-31		C-0161	UK				
C07BAL55	CR20.0-FE2.5-NI10.5	HS 25		STD.	FR				
1859	AFNOR K-C20NN	HS 25		C-0135	FR				
1860	XSH								
C07BAL56.2	CR26.0-FE0.5-NI10.7-W7.3			C-0130	AU	1.4966 DIN			
1861	TURBOtherm 26 CO 60								
C07BAL50.4	CR30.0-FE3-M3-N6.5	HAYNES STELLITE 60		C-0068	US				
1862	HAYNES STELLITE NO.68								
C07BAL59	CR29.0-FE3.0-NI3.0-W4.5	HOWMET STD. NO. 6		C-0022	US				
1863	HOWMET STANDARD NO. 6								
C07BAL61.5	CR21.0-FE2.0-MB/CR2-M11-M11			C-0080	US				
1864	AF-31			C-0068	US				
1865	WAINET NI-52 (CAST)	NI-52, HS-152		C-0080	US				
1866	WAINET NI-52 (CAST)	NI-52, HS-152							
C07BAL61.5	CR21.0-FE2.0-MB/CR2-M11-M11			C-0169	US				
1867	CAP1 205 (CAST)	NI-52		C-0169	US				
1868	SPIN 205 (CAST)	NI-52							
C07BAL62.7	CR29.0-FE1.5-MO0.75-NI1.5-W4.5	STELLITE 6		STD.	US				
1869	NIL-R-17131								
C07BAL62	CR27.0-FE1.0-MO5-NI3	HAYNES STELLITE 21		C-0068	US				
1870	HAYNES STELLITE NO.21			STD.	US				
1871	AST 7876 (CAST)	HS-21, ALUMINUM		C-0065	UK				
1872	ROSS VAC 52 (CAST)	HS-21, ALUMINUM		C-0169	US				
1873	ROSS VAC 52 (CAST)	HS-21, ALUMINUM		C-0085	US				
1874	BS 3531, PT-1 (CAST)	HS-21, ALUMINUM		C-0068	US				
1875	CAP1 219 (CAST)	HS-21, ALUMINUM		C-0113	US				
1876	SPIN 219 (CAST)	HS-21, ALUMINUM		STD.	US				
1877	VITALLIUM (CAST)	HS-21, ALUMINUM		C-0068	US				
1878	WAINET STELLITE 21 (C)	HS-21, ALUMINUM		C-0113	US				
1879	WAINET STELLITE 21 (C)	HS-21, ALUMINUM		STD.	US				
1880	STELLITE 7	HS-21, ALUMINUM		C-0113	US				
1881	STELLITE 8	HS-21, ALUMINUM		STD.	US				
1882	ZIMALLOY (CAST)	HS-21							
1883	GILK4								
C07BAL65	CR25.5-FE1.0-NI10.5-W7.5			STD.	FR				
1884	AFNOR K-C25NN (CAST)								
C07BAL66.7	CR21.0-FE1.0-M11.0-Ti0.9-W7.0			STD.	FR				
1885	AFNOR K-C22MTA (CAST)								
C07BAL66.7	CR21.0-FE1.0-M11.0-Ti0.9-W7.0			STD.	FR				
1886	CAP1 202 (CAST)			C-0068	US				
1887	CAP1 202 (CAST)			STD.	US				
1888	HAYNES STELLITE NO.23			C-0169	US				
1889	HAYNES STELLITE 23*			C-0068	US				
C07BAL67.2	CR24.0-FE1.0-NI1.0-W5.5	ALLOY 61		C-0060	US				
1890	ALLOY 61								

TABLE 2. (Continued)

LINE	ALLOY NAME OR ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	MICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	NIOBIUM	CHEMICAL COMPOSITION, WEIGHT PERCENT					IRON
													TITANIUM	ALUMINUM	BORON			
GROUP V - COBALT-BASE ALLOYS (Continued)																		
C07B/L69+CR26+M5.5 1991 MAYNES STELLITE 7			0.40	0.50	0.40	26		BAL. (69)		5.5								
C07B/L71+CR21.5+Ti4.5+Ti0.75+M9.2R2.25 1992 MAR-N ALLOY 322(CAST) 1993 SM-322 (CAST)			0.9-1.1 0.9-1.1	0.2 MAX. 0.2 MAX.	0.2 MAX. 0.2 MAX.	20-23 20-23		BAL. (71) BAL. (71)		8-10 8-10			0.65-0.85 0.65-0.85				1.5 MAX. 1.5 MAX.	
C07B/L79+CR26+M5 1894 STELLITE 6			1.0			26	10	BAL. (79)		5.0								
C038+CR20+FE2+Ni28+Ti4+M7 1895 J-1570			0.20			20.0	26.0	38		7.0			4.0				2.0	
C040+CR22.5+FE2.5+Ni20+M12 1896 X-50 (CAST)			0.76	0.60	0.50	22.5	20	40		12							2.5	
C042.5+CR19+FE1+M8+CE1.5+Ni24.5 1897 25 NI			0.17			19	24.5	42.5		10	1.5						1.0	
C043+CR20+FE3+M11.2+M9+CB4+Ni20+M4 1898 DIN X40OCRNi14-45-20 DIN X40OCRNi14-45-20			0.40	1.2		20	20	43		4.0	4.0						3.0	
C045+CR26+Ni10+M15 1899 GIMKEYNES-NE 1045			0.40			26	10	45		15								
C046+CR19+FE/BAL14.8+M02+M6/CB1.4+Ni12.5+M2.8 1980 G-32 1981 G-87 1982 G-34 1983 JESSOP G-34			0.28 0.28 0.28 0.28	0.75 0.75 0.8 0.8	0.6 0.5 0.5 0.3	19 19 19 19	12.5 10 12.5 13	46 BAL. (68.2) 46 46	2.0 2.0 2.0		1.4 1.3 1.2					BAL. (14.8) BAL. (15.9) BAL. (16)		
C045+CR28+FE28.7+M6/CB2 1904 PYROTHERM G UNCO 51 1905 PYROTHERM UNCO 51			0.30 MAX. 0.10 MAX.			28 28		49 50			2.0 2.0						BAL. (28.7) BAL. (28.9)	
C050+CR19.2+FE1.3+M8/CB0.9+Ni15.5+M12 1906 I-336			0.19			19.2	15.5	50		12	0.9						1.3	
C050+CR20+FE1+M10+Ti2+M15 1907 JETALLOY 209			0.03 MAX.	0.50	0.50	20	10	50		15			2.0				2.0 MAX.	
C050+CR27.5+FE/BAL2.4+M010.5+Ni16.5+Ti0.3 1908 ONERAL M-47 (CAST)			0.8	1.0	1.0	27.5	6.5	50	10.5				0.3				BAL. (2.4)	
C050+CR27.5+FE0.1+M05+Ni17.5+Zr0.1 1909 ONERAL S-90 (CAST)			0.3			27.5	17.5	50	5.0									
C050+CR29.5+FE/BAL19.5+M9/CB2 1910 PYRODUR CO 51 1911 SEM-X71+G-COOR 28 NB 1912 G-COOR 28 NB 1913 WERKSTOFF 2-4779 DIM			0.25-0.35 0.25-0.35 0.25-0.35 0.25-0.35	0.5-1.5 0.5-1.5 0.5-1.5 0.5-1.5	0.5-1.5 0.5-1.5 0.5-1.5 0.5-1.5	27-30 27-30 27-30 27-30		48-52 48-52 48-52 48-52			1.5-2.5 1.5-2.5 1.5-2.5					BAL. (21.5) BAL. (19.5) BAL. (19.5) BAL. (19.5)		
C050+CR28.5+FE/BAL21.5 1914 PYRODUR CO 50 1915 SEM-X71+G-COOR 28 1916 G-COOR 28 1917 WERKSTOFF 2-4778 DIM			0.05-0.25 0.05-0.25 0.05-0.25 0.05-0.25	0.5-1.5 0.5-1.5 0.5-1.5 0.5-1.5	0.5-1.5 0.5-1.5 0.5-1.5 0.5-1.5	27-30 27-30 27-30 27-30		48-52 48-52 48-52 48-52								BAL. (21.5) BAL. (21.5) BAL. (21.5) BAL. (21.5)		
C050+CR28+FE/BAL20+M6/CB2.1 1918 UNCO-51			0.25-0.30	0.5-1.0	0.5-1.0	27-29		48-52			2.0-2.2						BAL. (20)	
C050+CR28+FE/BAL22 1919 UNCO-50 1920 PYROTHERM G UNCO 50IC 1921 PYROTHERM UNCO 50			0.05-0.12 0.20 0.10 MAX.	0.5-1.0	0.5-1.0	27-29 28 28		48-52 50 50									BAL. (20) BAL. (22) BAL. (22)	

TABLE 2. (Continued)

LINE	ALLOY NAME DR ALLOY DESIGNATION	COMMON NAME DR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME COUNTRY PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
GROUP V - COBALT-BASE ALLOYS (Continued)									
CO/8AL69-CR26-Ni-5 1891 MAR-N STELLITE 7				C-0868	U2			WROUGHT FORMS	GAS TURBINE BLADES AND BRASS CASTING OIES.
CO/8AL71-CR21.5-Ti-4.5-TiO.75-Ni-9.7R2.25 1892 MAR-N ALLOY 322(CAST) 1893 SN-322			Ti-4.5-TiO.75-Ni-9.7R2.25 Ti-4.5-TiO.75-Ni-9.7R2.25	C-0869 C-0869	US US			INVESTMENT CASTINGS INVESTMENT CASTINGS	JET ENGINE BLADES, VANES. TURBINE BLADES AND VANES.
CO/8AL79-CR26-Ni-5 1894 STELLITE 6		STELLITE 6		C-0113	CN	ANS 5373		INVESTMENT CASTINGS	
CO36-CR20-FE2-Ni28-Ti-4-N7 1895 J-1570		J-1570		C-0088	US			BI.BA.FG.SH	
CO40-CR22.5-FE2.5-Ni20-Ni2 1896 X-50		X-50		C-0078	US			INVESTMENT CASTINGS	TURBINE BLADES, VANES.
CO42.5-CR19-FE1-Ni8-CB1.5-Ni20.5 1897 25 NI					US				
CO43-CR20-FE1-Ni1.2-Ni8-CB1.5-Ni20.5 1898 OIN X40COGRNIN 45-20 OIN X40COGRNIN 45-20				STD.	CY			WROUGHT FORMS	TURBINE BLADES, ROTORS, HARWARE, JET ENG. PARTS.
CO45-CR26-Ni18-Ni5 1899 GINHEYES-NE 1049				STD.	UR			WROUGHT ALLOY	
CO46-CR19-FE/BAL14.8-Ni2.8-Ni12.5-V2.8 1900 C-32 1901 G-87 1902 C-34 1903 JESSOP C-34		G-32 G-87 G-34 G-34	V2.8 V2.8 V2.8	C-0147 C-0147 C-0147 C-0147	UK UK UK UK			WROUGHT FORMS WROUGHT FORMS INVESTMENT CASTINGS INVESTMENT CASTINGS	
CO49-CR28-FE2.7-Ni8-CB2 1904 PYROTHERM C UNCO 51 1905 PYROTHERM UNCO 51		UNCO 51 UNCO 51		C-0121 C-0121	GY GY			INVESTMENT CASTINGS	FURNACE EQUIPMENT AND HIGH TEMPERATURE PARTS. LOAD CARRYING PARTS AT ELEVATED TEMPERATURES.
CO50-CR19.2-FE1.3-Ni8-CB0.9-Ni15.5-Ni2 1906 I-336				C-0088	US				
CO50-CR20-FE1-Ni10-Ti2-Ni5 1907 JETALLOY 209				C-0171	CN				
CO50-CR27.5-FE/BAL2.4-MO10.5-Ni6.5-Ti0.3 1908 ONERAL N-47 (CAST)					FR			INVESTMENT CASTINGS	GAS TURBINE BLADES.
CO50-CR27.5-FE0.1-Ni0.5-Ni11.7.5-ZR0.1 1909 ONERAL S-98 (CAST)			ZR0.1		FR			INVESTMENT CASTINGS	GAS TURBINE BLADES.
CO50-CR28.5-FE/BAL19.5-Ni8-CB2 1910 PYRODUR CO 51 1911 G-COGR 28 NB 1912 G-COGR 28 NB 1913 NERKSTOFF 244779 DIN		G-COGR 28 NB G-COGR 28 NB G-COGR 28 NB G-COGR 28 NB		C-0126 STD. STD. STD.	GY GY GY GY	244779 DIN 244779 DIN 244779 DIN 244779 DIN		CASTINGS CASTINGS CASTINGS CASTINGS	
CO50-CR28.5-FE/BAL21.5 1914 PYRODUR CO 50 1915 G-COGR 28 1916 G-COGR 28 1917 NERKSTOFF 244778 DIN		G-COGR 28 G-COGR 28 G-COGR 28 G-COGR 28		C-0126 STD. STD. STD.	GY GY GY GY	244778 DIN 244778 DIN 244778 DIN 244778 DIN		CASTINGS CASTINGS CASTINGS CASTINGS	
CO50-CR28.5-FE/BAL20-Ni8-CB2.1 1918 UNCO-51		UNCO-51	S0.02MAX.P0.08MAX.	C-0150	BE			SH.PL.BA.N.FG.CASTINGS	FURNACE BAFFLES.
CO50-CR28.5-FE/BAL22 1919 UNCO-50 1920 PYROTHERM C UNCO 50 1921 PYROTHERM UNCO 50		UNCO-50 UNCO-50 UNCO-50 UNCO-50	S0.02MAX.P0.02MAX.	C-0072 C-0121 C-0121	US GY GY			SH.PL.BA.N.FG.CASTING INVESTMENT CASTINGS	HEAT TREATING FACILITIES AND CLASS MAKING. FURNACE EQUIPMENT AND HIGH TEMPERATURE PARTS. LOAD CARRYING PARTS AT ELEVATED TEMPERATURES.

TABLE 2. (Continued)

ALLOY NAME OR LINE ALLOY DESIGNATION	COMMON NAME OR DESIGNATION	CARBON	MANGANESE	SILICON	CHROMIUM	NICKEL	COBALT	MOLYBDENUM	TUNGSTEN	COLUMBIUM	TITANIUM	ALUMINUM	BORON	IRON
GROUP V - COBALT-BASE ALLOYS (Continued)														
C055, CR25+FE1, NI10+W7.5 1922 JETALLOY 249		0.03 MAX.	0.50	0.50	25	10	55		7.5					2.0 MAX.
C056, CR15+FE2+NI1.2+MO5.5+NB/CB1, NI10+W10 1923 AF-94*		0.12	1.2		15	10	56	5.5	10	1.0				2.0
C058, CR23+FE1+MO6+NI10 1924 X-63	(CAST) X-63	0.40			23	10	58	6.0						1.0
C063, CR30+MO6 1925 STELLITE 8	(CAST) STELLITE 8	0.20			30		63	6.0						
GROUP VI -- ALLOYS OR STANDARDS WITH NO COMPOSITIONS REPORTED														
GENERAL INVEST. CASTING SPEC. FOR HIGH-ALLOY STEEL, NICKEL-COBALT														
1926 BS 3146, PART 2														
NO COMPOSITION REPORTED														
1927 G 4714G	(CAST)		COMPOSITION UNKNOWN											
1928 G 5112			COMPOSITION UNKNOWN											
1929 G 5112														
NO COMPOSITION REPORTED. SPEC. FOR HEAT-RESISTING SUPER ALLOY BARS														
1929 C 4901														
NO COMPOSITION REPORTED. SPEC. FOR NI-CR-Fe ALLOY TUBES														
1930 G 4903														
NO COMPOSITION REPORTED. SPEC. FOR NI-CR-Fe ALLOY HEAT EXCHANGER TUBING														
1931 G 4904														

TABLE 2. (Continued)

LINE	ALLOY NAME OR DESIGNATION	COMMON NAME OR DESIGNATION	OTHERS	COMPANY CODE	CTRY CODE	PRIME PUBLIC STANDARD	RELATED UNS NUMBER	FORMS APPLICABLE	CHARACTERISTICS AND TYPICAL APPLICATIONS
C051-CR25-FE1-NI10-M7.5	1922 JETALLOY 249			C-0171	CN				
C056-CR15-FE2-NI1.2-M05.5-NB/CB1-NI10-M10	1923 AF-94*			C-0066	US			WROUGHT FORMS	JET ENGINE PARTS.
C058-CR23-FE1-M06-NI10	1924 X-63	ICAST1 X-63		C-0078	US			INVESTMENT CASTINGS	TURBINE BLADES, VANES.
C063-CR30-N06	1925 STELLITE 8	ICAST1 STELLITE 8		C-0097	UK			INVESTMENT CASTINGS	GAS TURBINE BLADES AND BRASS CASTING OIES.
GROUP VI - ALLOYS OR STANDARDS WITH NO COMPOSITIONS REPORTED									
GENERAL INVEST-CASTING SPEC.FOR HIGH-ALLOY STEEL, NI									
1926 BS 3146, PART 2				STO.	UK			INVESTMENT CASTINGS	GENERAL SPECIF. FOR A SERIES OF ALLOYS.
NO COMPOSITION REPORTED									
1927 G472H36-13	ICAST1			C-0076	UR			INVESTMENT CASTINGS	UNKNOWN.
1928 GOST HE1926		£1926		STO.	UR			WROUGHT FORMS	TURBINE DISCS FOR AIRCRAFT.
NO COMPOSITION REPORTED. SPEC.FOR HEAT-RESISTING SUP									
1929 G 4901				STO.	JA	G 4901 JIS		BA	
NO COMPOSITION REPORTED. SPEC.FOR NI-CR-Fe ALLOY TUBES									
1930 G 4903				STO.	JA	G 4903 JIS		PIPE	
NO COMPOSITION REPORTED SPEC. FOR NI-CR-Fe ALLOY HEAT EXCHANGER TUBING									
1931 G 4904				STO.	JA	G 4904 JIS		HEAT EXCHANGER TUBES	

* Alloys of Historical Interest.
 ** Mechanically Alloyed, Dispersion Strengthened Alloys.
 (ICAST) Casting Alloy.
 (C) Cast Alloy.
 WRT Wrought Alloy.
 L.A.F. Low as Possible.

FOOTNOTES (a)

AECMA Association Europeenne Des Constructeurs De Matieriel
 AFNOR Association Francaise De Normalization.
 AIR Ministere Des Armees, Repertoire Des Reglements AIR.
 AMS Aerospace Material Specification (By SAE).
 ANSI American National Standards Institute.
 ASME American Society Of Mechanical Engineers.
 ASTM American Society For Testing And Materials.
 AWS American Welding Society.
 BS British Standard Specifications.
 DTG British Ministry Of Defence.
 DIN German Standard Specification (per DIN 17008).
 EN European Normenanschlus.
 GOST: GOST State Standards Committee Specifications.
 ISO International Organization For Standardization.
 JIS Japanese Standards Institute.
 MIL US Military Specifications.
 PW Pratt-Whitney Aircraft Co.
 RR Royal Swedish Air Board Specifications. Also called
 RSAB Swedish Defence Materiel Administration.
 SAE Society Of Automotive Engineers.
 SAE Society Of Automotive Engineers.
 UNIS United Nations.
 VDOT Unified Numbering System For Metals And Alloys - (SAE/ASTM).
 WKS German Association For Technical Supervision.
 WERKSTOFF LN German Aeronautical Material Numbers (Listungstabelle).
 WERKSTOFF DIN German Material Numbers.
 CSN Czechoslovakian Standard Numbers.
 TU Soviet Technical Specifications.
 AMTU Soviet Aviation Metallurgical Specifications.

(b) BA Bar
 BI Billet
 Bolts S Bolts, Screws
 Cast Castings
 Forgings Forgings
 Heat Exchanger Tubing Heat Exchanger Tubing
 Invest.C Investment Castings
 Inspect. Proc. Inspection Procedures
 Powder Powder
 Precision Castings Precision Castings
 Seamless Pipe Seamless Pipe
 Seamless Tubing Seamless Tubing
 Sheet Sheet
 ST Strip
 T Tubing
 Thread W. Wire Thread Inserts
 R Rods
 W Wire
 Weld EI Welding Electrodes
 Weld Fit Welding Fittings
 Welded Tubing Welded Tubing
 Weld W Welding Wire
 Riv Rivets
 Surg Imp Surgical Implants

TABLE 3. CORRELATION OF SUPERALLOY NOMINAL CHEMICAL COMPOSITIONS WITH COMMON NAMES, COMMERCIAL DESIGNATIONS, UNIFIED NUMBER SYSTEM (UNS), AND COUNTRY STANDARDS
(Alphanumerical by Computerized Format)

Nominal Composition, weight percent (Essential Elements Only)	Common Name or Commercial Designation	(US) Related UNS No. (SAE/ASTM)	(US) Aerospace Material Specifications (AMS Prefix)	(US) SAE Specifications	(US) ASTM Specifications	(US) ANSI Specifications	(US) ASME Specifications	(US) AISI Specifications	(US) MIL Specifications	(UK) United Kingdom Standards
Group 1. Ferritic (Martensitic) Stainless Steels										
Cr11.5, Fe/Bal86.6, Mo0.6, Ni0.7, N, Nb/Cb0.25, V0.3	RNOD									
Cr12, Fe/Bal83, Mn1, Mo2.75, Ni0.3, V0.25	Lepulloy	S42300		J467 (422)	A565 (619)			619		
Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1	422	S42200			A565 (616)			616, 422		
Cr12, Fe/Bal83.5, Mo1.75, Ni2.5, N, V0.3	RNOD Ni									
Cr13, Fe/Bal81, Ni2, W3	Greek Ascology	S41800 " "	5354, 5470, 5817, 5508, 5616	J467 (Greek Ascology)	A565 (615)			615		
Cr14.5, Fe/Bal67, V0.4	AFC-77	K65770	5748							
Group 1A. Age-Hardenable Steels										
A10.15, Cr21.5, Cu18, Fe30, Mn1, Mo3, Ni41.8, Ti0.9	Incoloy alloy 825, NICRAL K25	N08825			B163, B423, 8424, B425		S8163, S8423, S8424, S8425			3072-76:NA16
A10.2, B, Cr15, Fe/Bal53, Mn1.4, Mo1.25, Ni26, Ti2.15, V0.03	A-286, RGT 1, A TVS Mo	K66286 " " " " "	5525, 5731, 5732, 5734, 5735, 5736, 5737, 5804, 5805, 7235, 7478, 7479, 7481	J467 (A286)	A453 (660) A638 (660)		SA638 (660)	660		DTD 5026
A10.32, Cu0.35, Cr21, Fe/Bal45.5, Ni32.5, Ti0.32, NCF 2H	Incoloy 800H, Chromax, NICRAL C2, NCF 2H	N08810			B163, B407, B408, B409, B564		S8163, S8407, S8408, S8409, S8564			
A10.25, B, Cr14.8, Fe/Bal52.2, Mo1.25, Ni27, Ti3, V0.5	V-57							663		
A10.25, Cr13.5, Fe34, Mo6.2, Ni42.7, Ti2.5	Incoloy alloy 901	N09901	5660, 5661		B163, B386, B407, B408, B409, B514, 8515, B564	H34.15, H34.23, H34.24, H34.39, H34.40, H34.41, H34.42		681		3072-76:NA15
A10.38, Cr21, Fe46, Ni32.5, Ti0.38	Incoloy alloy 800, NCF 2 A T 30, NICRALC, PYRAD 33	N08800	5766, 5871							
A11, B, Cr15, Fe27, Mo4, Ni45, Ti3, W4	D-979, RGT 9	K66979, N09979	5509, 5746	J467 (D-979)				664		
A11.5, B, Cr13, Fe/Bal38.6, Mo5.5, Nb/Cb0.6, Ni38, Ti2.5	CG-27	N09027	5633, 5634							
B, Cr13.5, Fe/Bal54.5, Mn1.75, Mo1.8, Ni25, Ti2.85	W-545	K66545	5543, 5741	J467 (W545)	A453 (665)			665		
Cr20.5, Fe44.5, Ni32, Ti1.13	Incoloy alloy 801, NICRAL CT	N08801	5552, 5742							

Nominal Composition, weight percent (Essential Elements Only)	Common Name or Commercial Designation	(US) Related UNS No. (SAE/ASTM)	(US) Aerospace Material Specifications (AMS Prefix)	(US) SAE Specifications	(US) ASTM Specifications	(US) ANSI Specifications	(US) ASME Specifications	(US) AISI Specifications	(US) MIL Specifications	(UK) United Kingdom Standards
Group 2. Chromium-Nickel-Iron Alloys (Continued)										
Cr-13.5, Fe/Bal-55.8, Mo-3, Ni-25, Ti-1.75	Discaloy, ATVS 2, RGT 101	K66220	5733	J467 (Discaloy)	A453 (662), A638 (662)			662		
Cr-15.9, Cu-3, Fe/Bal-62.4, Mo-2.5, Nb/Cb-0.45, Ni-14.1, Ti-0.25	17-14 CuMo									
Cr-16, Fe/Bal-50.7, Mn-1.35, Mo-6, Ni-25	16-25-6		5725, 5727, 5728		A457, A458, A477			653 650		
Cr-17, Fe/Bal-65.7, Ni-12.5, Ti-0.6, W-3.2	Z10CNIW17									
Cr-19, Fe/Bal-66.8, Mn-1, Mo-1.25, Nb/Cb-0.4, Ni-9, Ti-0.03, W-1	19-9 DL	K63198	5369, 5526, 5527, 5679, 5720, 5721, 5722	J467 (19-9DL)	A453 (651), A457 (651), A458 (651), A477 (651)			651		
Cr-19, Fe/Bal-68.3, Mo-0.4, Nb/Cb-0.44, Ni-9, Ti-0.4, W-1.3	19-9WMo	K63199	5782, 5783	J467 (19-9DX)				652		
Cr-19.2, Fe/Bal-66.7, Mn-1, Mo-1.5, Ni-9, Ti-0.55, W-1.2	19-9 DX	K63199	5538, 5539, 5723, 5724, 5729, 5782, 5783	J467 (19-9DX)	A457, A458 A477			652		
Cr-20.5, Fe/Bal-67.3, Mo-0.5, Nb/Cb-1.3, Ni-8.5, Ti-0.2, W-1.55	19-9WX	K63199	5782, 5783							
Cr-25, Fe/Bal-53.5, Ni-20.5	Z6CN25									
Cr-29, Cu-0.25, Fe/Bal-59.5, Mn-1.5, Mo-0.25, Ni-19.5	29-9	K64299	5784, 5785							
Group 2A. Chromium-Nickel-Iron-Manganese Alloys (High-Manganese Modification)										
Cr-20.5, Fe/Bal-63.5, Mn-8.5, Ni-3.5, N	21-6-9	S21900	5561, 5595, 5656		A276 (XM-10), A314 (XM-10), A412 (XM-10), A429 (XM-10), A473 (XM-10), A580 (XM-10)					
Cr-20.5, Fe/Bal-63.5, Mn-9, Ni-6.5, N	21-6-9 LC	S21904	5595, 5656, 5561		A276 (XM-11), A314 (XM-11), A412 (XM-11), A429 (XM-11), A473 (XM-11), A580 (XM-11)		SA412 (21904)			
Group 3. Chromium-Nickel-Cobalt Alloys										
Al-0.8, Co-20, Cr-18, Fe/Bal-29, Ni-30, Ti-2	ATV S7									
B-Co-6, Cr-10.5, Fe/Bal-82.4, Mo-0.7, Nb/Cb-0.3, Ni-0.5, V-0.2, W-0.7	Z10CKD10, RNDD Co									
Co-19, Cr-18, Fe/Bal-22.9, Mo-3, Ni-36, Ti-2.6	Refractalloy 26, ATVS 7 Mo									
Co-20, Cr-20.5, Fe/Bal-25.4, Mn-1.25, Mo-4, Nb/Cb-4, Ni-20, W-4	S-590, ATG XX, RGT 33	R30590	5533, 5770							690

TABLE 3. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	(FR)	(FR)	(FR)	(GY)		(GY)	(SW)	(EW)	(XX)	(UR)
				Werkstoff-Nr. NIR nach DIN 17 007	Luftfahrt- werkstoff-Nr. LN German Aeronautical Material Number	Bezeichnung nach DIN 17 006 German Standard Designation Specification (DIN 17 006)				
	AECMA Standards	AIR Standards	AFNDR Standards				Royal Swedish Air Board Specifications	Euronorm Specifications	ISO Standards	GOST Standards Other Standards or Specifications
Group 2. Chromium-Nickel-Iron Alloys (Continued)										
Cr13.5, Fe/8al55.8, Mo3, Ni25, Ti1.75	Fe-PA93-HT	9165-061	Z3NCT25 Z4NCDT26	1.4985	1.4943			prEN2173, 2174, 2175		
Cr15.9, Cu3, Fe/8al62.4, Mo2.5, Nb/Cb0.45, Ni14.1, Ti0.25										
Cr16, Fe/8al50.7, Mn1.35, Mo6, Ni25										
Cr17, Fe/8al65.7, Ni12.5, Ti0.6, W3.2		9165-041	Z10CNW17							
Cr19, Fe/8al66.8, Mn1, Mo1.25, Nb/Cb0.4, Ni9, Ti0.03, W1										
Cr19, Fe/8al68.3, Mo0.4, Nb/Cb0.44, Ni9, Ti0.4, W1.3										
Cr19.2, Fe/8al66.7, Mn1, Mo1.5, Ni9, Ti0.55, W1.2										
Cr20.5, Fe/8al67.3, Mo0.5, Nb/Cb1.3, Ni8.5, Ti0.2, W1.55		9165-031	Z6CN25							
Cr25, Fe/8al53.5, Ni20.5										
Cr29, Cu0.25, Fe/8al59.5, Mn1.5, Mo0.25, Ni19.5										
Cr20.5, Fe/8al63.5, Mn8.5, Ni3.5, N										
Cr20.5, Fe/8al63.5, Mn9, Ni6.5, N										
Group 2A. Chromium-Nickel-Iron-Manganese Alloys (High-Manganese Modification)										
Group 3. Chromium-Nickel-Cobalt Alloys										
Al0.8, Co20, Cr18, Fe/8al29, Ni30, Ti2			Z10NKC30							
8, Co6, Cr10.5, Fe/8al82.4, Mo0.7, Nb/Cb0.3, Ni0.5, V0.2, W0.7	Fe-PM38	9165-021	Z10CKD10 Z6NKCOT38	1.4911		X8CrCoNiMo10 6				
Co19, Cr18, Fe/8al22.9, Mo3, Ni36, Ti2.6										
Co20, Cr20.5, Fe/8al25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4			Z42CKNDW20 Z42CKND NbW20	1.4977 + 1.4978	1.4978	X40CoCrNi20 20 + X50CoCrNi20 20				

TABLE 3. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Common Name or Commercial Designation	(US) Related UNS No. (SAE/ASTM)	(US) Aerospace Material Specifications (AMS Prefix)	(US) SAE Specifications	(US) ASTM Specifications	(US) ANSI Specifications	(US) ASME Specifications	(US) AISI Specifications	(US) MIL Specifications	(UK) United Kingdom Standards
Group 3. Chromium Nickel-Cobalt Alloys (Continued)										
Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1, Ni20,N,W2.5	N-155 Multimet, ATG X, RGT 32	R30155 " " "	5376,5531, 5532,5585, 5768,5769, 5794,5795		A539 (661), A567 (661)	G81.40		661		
Group 4. Nickel-Base Alloys										
Al0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9, Ni41.5,Ti1.75	Inconel 706	N06706 " "	5605,5606, 5701,5702, 5703							BS314612 ANC 8
Al0.2,Co3,Cr20,Fe5,Ni/Bal57.7,Ti0.4	Nimocast 75, ANC 8						S8443,S8444, S8446			
Al0.2,Cr21.5,Fe2.5,Mo9,N61,Ti0.2	Inconel alloy 625, ATG E2	N06625	5599,5666,		8443,8444, 8446	H34.19, H34.20, 34.22				
Al0.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5	Rene 41, Incoloy alloy 901, RGT15+Ti		5545,5712, 5713,5800							
Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9	Nimonic 901,RGT 8		5660,5661							HR53, HR404
Al0.45,8,Co20,Cr20,Mo5.9,Ni/Bal51.1, Ti2.5,Zr0.02	Nimonic 263,P.E.R. 263,C 263,RGT 131 ATGWO									HR 10, HR206
Al0.5,8,Cr15,Fe7,Mg0.2,Mo2.9,N8/C8 2.9,Ni/Bal67.8,Ti0.5,W3,Zr	IN-102	N06102	5550		8445,8518 8519	H34.21, H34.27, H34.28				
Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2.2	Nimocast alloy 263,ATG W0,RGT 131, C-263									
Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13, Ni52.5,Ti0.09	Inconel alloy 718,ATG C1,RGT 601	N07718 " " "	5383,5589, 5590,5596, 5597,5662, 5663,5664, 5832	A637, A670						
Al0.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5	El-868,VZn98,KhN60VT									
Al0.55,Cr20.5,Fe1.5,Mo1.95,Nb/Cb0.11, Ni/Bal75.3,Ti0.55	El-602,KhN75MBTYu			A637						
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5	Inconel alloy X-750,ATG F,RGT 6 El-607,KhN80BYu,KhN80TYu	N07750 " " " " "	5542,5582, 5598,5667, 5668,5669, 5670,5671, 5698,5699, 5778,5779, 7246				Case 1325, SA637	688	JAN-W562 N7786 N8550 N24114 S21977 S23192	
Al0.7,Cr15.5,Fe7,Ni75,Ti2.38	Inconel alloy 722	N07722	5541,5714							

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[illegible]

TABLE 3. (Continued)

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TABLE 3. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Common Name or Commercial Designation	(US) Related UNS No. (SAE/ASTM)	(US) Aerospace Material Specifications (AMS Prefix)	(US) SAE Specifications	(US) ASTM Specifications	(US) ANSI Specifications	(US) ASME Specifications	(US) AISI Specifications	(US) MIL Specifications	United Kingdom Standards
Group 4. Nickel-Base Alloys (Continued)										
Al2.5, 8, Co15, Cr18, Mo3, Ni/8al54.2, Ti5, W1.5	Udimet 710, ATG W4									
Al2.65, 8, Co0.02, Cr14.5, Fe5, Mo3.25, Ni/8al66.7, Ti1.95, W6, V0.6	El-826, El617A8, KhN70VMTYuF									
Al2.9, 8, Co18, Cr19, Fe4, Mo4, Ni/8al47.2, Ti2.9	Udimet 500, Nimonic PK25, ATG W2, RGT14	N07500 "	5384, 5751, 5753		A637, A567			684		
Al2.35, 8, Cr20.25, Fe4, Mo5, Ni/8al56.8, Ti1.35, W10	EP 99, KhN56VMTYu									
Al3, Co28.5, Cr15, Fe0.7, Mo3.75, Ni46, Ti2.3	Inconel 700, ATG S8									
Al3.8, Cr15, Fe10, Mo5.25, Ni/8al63.2, Ti2	GMR 235							686		
Al3.1, 8e0.1, Co0.03, Cr16.5, Fe/8al23.8, Ni56.5	El-559, 599A, KhN60Yu									
Al3.15, 8e0.1, Co0.03, Cr27.5, Fe1, Ni/8al68.1, V0.1	El-652, KhN70Yu									
Al3.25, Cr15.5, Fe1, Ni79.5, Ti0.63	Inconel alloy 702	N07702	5550							
Al4.05, 8, Co14, Cr10.5, Fe5, Mo5, Ni/8al58.6, Ti1.7, V0.5, W5.2	El-929, KhN55VMTKYu									
Al4.25, 8, Co18.5, Cr15, Fe1, Mo5.2, Ni/8al62.3, Ti3.5	Udimet 700, ATG W3							687		
Al4.3, 8, Co0.01, Cr10, Fe5, Mo5.7, Ni/8al69.3, V0.7, W5	El-827, KhN75VMYu									
Al4.55, 8, Co0.02, Co5, Cr9.5, Fe4, Mo10.25, Ni/8al61.6, W5.1	El-867, KhN62VMKYu									
Al4.6, 8, Co0.01, Cr10, Fe18.5, Mo5.75, Ni/8al58.2, W5	EP454, KhN55MVYu, KhN55M6VYu									HR3, DTD5007A
Al4.7, Co20, Cr15, Mo5, Ni53, Ti1.2	Nimonic 105, RGT 16									
Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4	Nimonic 115									HR 4, DTD5017A
Al5.5, Co15, Cr9.5, Mo3, Ni61, Ti4.7, V1	Nimocast PK24, (IN 100), ATG M2	N13100	5397							HC204
Al5.8, 8, Co0.02, Co12, Cr9.5, Fe1.5, Mo7.3, Ni/8al57.2, W6.7	EP-109, KhN56VMKYu									
Al5.9, 8, Cr12, Fe0.5, Mo4.5, Nb/Cb2, Ni/8al73.6, Ti0.6, Zr0.1	Alloy 713LC, ATGS9									
Al6, Cr13.5, Mo4.5, Ni72, Ti0.9	Nimocast 713, Inconel 713C	N07713	5391		A567					HC203
Al6.1, 8, Cr12.5, Fe2.5, Mo4.2, Nb/Cb2, Ni/8al70.9, Ti0.8, Zr0.1	Alloy 713C, IN-713, ATG S9		5377, 5391		A567					
Co1.5, Cr21.5, Fe18.5, Mo9, Ni48, W0.6	Nimonic PE13, Hest alloy X, RGT 5		5536, 5587, 5588, 5754, 5798, 5799							HR6, HR204

Nominal Composition, weight percent (Essential Elements Only)	(FR)	(FR)	(FR)	(GY)		(SW)	(EW)	(XX)	(UR)
				Werkstoff-Nr.					
				Werkstoff- Nr nach DIN 17 007 German Material Number	Luftfahrt- werkstoff-Nr. LN German Aeronautical Material Number				
AECMA Standards	AIR Standards	AFNOR Standards	(FR)	Bazzeichnung nach DIN 17 006 German Designation Specification (DIN 17 006)		Royal Swedish Air Board Specifications	Euronorm Specifications	ISO Standards	GOST Standards
				(FR)	(UR)				
Al2.5.B.Co15,Cr18,Mo3,Ni/8al54.2,Ti5,W1.5		9165-181	NCK18TDA						
Al2.65.8.Ce0.02,Cr14.5,F=5,Mo3.25, Ni/8al66.7,Ti1.95,W6,V0.6									
Al2.9.B.Co18,Cr19,F=4,Mo4,Ni/8al47.2,Ti2.9	NI-P94-HT	9165-141	NCK18DAT, NCK19DAT, NCK20KDTA, NCKD20ATu, NCKD20ATw	2.4983	2.4666	NiCr18Co			5632-72
Al2.35.8,Cr20.25,Fe4,Mo5,Ni/8al56.8, Ti1.35,W10									
Al3.Co28.5,Cr15,Fe0.7,Mo3.75,Ni46,Ti2.3									
Al3.B,Cr15,Fe10,Mo5.25,Ni/8al63.2,Ti2									
Al3.1.8a0.1,Ce0.03,Cr16.5,F=1/8al23.8,Ni56.5									5632-72
Al3.15.8a0.1,Ce0.03,Cr27.5,Fe1,Ni/8al68.1, V0.1									5632-72
Al3.25,Cr15.5,Fe1,Ni79.5,Ti0.63									
Al4.05.8.Co14,Cr10.5,F=5,Mo5,Ni/8al58.6, Ti1.7,V0.5,W5.2									
Al4.25.8,Cr18.5,Cr15,Fe1,Mo5.2,Ni/8al52.3, Ti3.5									5632-72
Al4.3.8.Ce0.01,Cr10,Fe5,Mo5.7,Ni/8al69.3, V0.7,W5		9165-171	NK18CDAT						
Al4.55.8.Ce0.02,Co5,Cr9.5,F=4,Mo10.25, Ni/8al61.6,W5.1									5632-72
Al4.6.8.Ce0.01,Cr10,F=18.5,Mo5.75, Ni/8al58.2,W5									5632-72
Al4.7.Co20,Cr15,Mo5,Ni53,Ti1.2	NI-P61-HT	9165-191	NKCD20ATv, NK19CDAT, NK20CDA	2.4634		NiCoCr15MoAlTi NiCo20Cr15MoAlTi	prEN2179, 2180,2181		5632-72
Al5.Co13.2,Cr14.2,Mo4,Ni59,Ti4	NI-P102-HT		NCK15ATD	2.4636		NiCoCr15MoAlTi NiCo15Cr15MoAlTi	prEN2233		
Al5.5.Co15,Cr9.5,Mo3,Ni61,Ti4.7,V1	NI-C104-HT		NK15CAT	2.4674					
Al5.8.8.Ce0.02,Co12,Cr9.5,F=1.5,Mo7.3, Ni/8al57.2,W6.7									
Al5.9.8,Cr12,Fe0.5,Mo4.5,Nb/Cb2, Ni/8al73.6,Ti0.6,Zr0.1									
Al6,Cr13.5,Mo4.5,Ni72,Ti0.9	NI-C98-HT		NC13AD	2.4670		GNiCr13Al6MoNb	prEN2192		
Al6.1.8,Cr12.5,Fe2.5,Mo4.2,Nb/Cb2, Ni/8al70.9,Ti0.8,Zr0.1	NI-C98-HT		NC13AD	2.4670			prEN2192		
Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6	NI-P93-HT	9165-131	NC22FAD	2.4972	2.4665	NiCr22Fe18Mo	prEN2182, 2183,2184, 2185		

TABLE 3. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Common Name or Commercial Designation	(US) Related UNS No. (SAE/ASTM)	(US) Aerospace Material Specifications (AMS Prefix)	(US) SAE Specifications	(US) ASTM Specifications	(US) ANSI Specifications	(US) ASME Specifications	(US) AISI Specifications	(US) MIL Specifications	(UK) United Kingdom Standards
Group 4. Nickel-Base Alloys (Continued)										
Co-1.5,Cr-22,Fe-18.5,Mo-9,Ni-8al-47.3,W-0.6	Hastelloy X,ATG E,PYRAD 49D,RGT 5	N06002	5390,5536, 5587,5588, 5754,5796, 5799,7237		B435,A567, B366,B572	H34.15	S8435	680		
Co-2.5,Cr-0.6,Fe-5,Mo-28,Ni-8al-62,V-0.3	Hastelloy B,NiMo30,ARC 162B,ANC 15	N10001	5396		A494,8295, 8304,8333, 8335,B366, A296	H34.11, H34.13, H34.15, G81.10, G81.34	S8333,S8335			
Co-2.5,Cr-15.5,Fe-5.5,Mo-16,Ni-8al-55.4, V-0.35,W-3.75	Hastelloy C276	N10276			B574,8575					
Co-2.5,Cr-16,Fe-5,Mo-17,Ni-8al-53.9,W-4	Hastelloy C,ARC 6015,ANC16	N10002	5388,5389, 5530,5750		A194,A567, B295,B304, 8334,8336	G81.10, G81.34, G81.40, H34.14, H34.12, H34	SFA5.14, SFA5.11, S8334, S8336			
Co-3,Cr-25,Fe-18,Mn-1.5,Mo-3,Ni-8al-45.5, Si-1.25,W-3	RA-333,ATG 33	N06333	5593,5717							8S3146/ZANC 11
Co-10,Cr-22,Mo-10,Ni-57	Nimocast 242,ANC 11,C-242									
Cr-15.5,Fe-1,Mo-16,Ni-8al-63.7,W-3.75	EP567,KhN65MY,OKh15N65M16V									HR5,HR203, HR403,2HR504, DTD7038
Cr-19.5,Fe-4,Ni-75,Ti-0.4	Nimonic 75,ATG R,EL-435,KhN78T,RGT 0									HC202
Cr-20,Fe-3,Mo-6,Ni-61,W-2.5	Nimocast PE10									
Group 5. Cobalt-Base Alloys										
B,Co/8al-42,Cr-20,Fe-4,Mn-1.2,Mo-4, Nb/Cb-4,Ni-20,W-4	S816+B	R30816	5534,5765		A639(671)			671		8S314612,ANC 13
8,Co/8al-62.5,Cr-25.5,Fe-2,Ni-10.5,W-7.5	X-40,HS-31,ANC 13,Ross ST31	R30031	5382,5789		A567(2)	G81.40				
Co/8al-35.2,Cr-25,Fe-1,Mo-5.5,Ni-32	Haynes Stellite Alloy No. 27	R30027	5378							
Co/8al-39.2,Cr-22,Fe-1.5,La-0.08,Ni-22,W-14	Haynes Alloy No. 188	R30188	5608,5772, 5801							
Co/8al-42,Cr-20,Fe-4,Mn-1.2,Mo-4,Nb/Cb-4, Ni-20,W-4	S-816,RGT 35	R30818	5534,5765		A639(671)			671		
Co/8al-50.3,Cr-26,Fe-1,Mo-6,Ni-15	Haynes Stellite Alloy No. 30	R30030	5380							
Co/8al-52.9,Cr-20,Mn-1.5,Ni-10,W-15	WF-11,L605,HS-26,RGT 36,ATG H	R30605	5537,5759, 5796,5797, 7236		F90			670	R5031, Class 13 and E-6844, Class 14	
Co/8al-62,Cr-27,Fe-1,Mo-5,Ni-3	Haynes Stellite Alloy No. 21	R30021	5385		A567(1)	G81.40				
Co/8al-66.7,Cr-24,Fe-1,Mo-5,Ni-2	Haynes Stellite Alloy No. 23,Stellite 7	R30023	5375							
Co/8al-68,Cr-26,W-5	Stellite-6	R30006	5373,5387, 5778							DTD900-4733

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TABLE 4. SOME PHYSICAL AND MECHANICAL PROPERTIES OF SELECTED SUPERALLOYS
(Alphanumeric by Nominal Chemical Composition)

Nominal Composition (essential elements), weight percent	Common Name(s) or Alloy Designation(s)	Related UNS No.	Density, g/cm ³ (a)	Thermal Conductivity, Cal/cm/sec/C(b)	Coefficient of Thermal Expansion, 10 ⁻⁶ /mm/mm/C(d)	Stress to Cause Rupture, MN/m ² (d)				Test Conditions
						650 C	1200 F	980 C	1800 F	
1000 C oil quench, 650 C/2 hr, air cool 980 C 1/2 hr, air cool, 680 C/1 hr						100	1000	100	1000	hours
hours						hours	hours	hours	hours	
Group 1. Ferritic (Martensitic)										
8-Cr11.5-Fe/8al56.2-Mo0.6-Nb/Co0.2-Ni0.07-V0.2	Hela H, G. T. 4					256	168			
Cr11.5-Cu2-Fe/8al82-Mo2.75-Ni0.3-N	Laploy C		7.95		10.6	166	160			
Cr12-Fe/8al83-Mn1-Mo2.75-Ni0.3-V0.25	Laploy C		7.95		10.6	172	110			
Cr12-Fe/8al83-Mn1-Mo2.75-Ni0.3-V0.25	422, A151 422, A151 616		7.78	0.057	10.8	172	110			
Cr13-Fe/8al81.2-Ni2-Nb3	Greek Ascoloy, A151 615	SA1800	7.87		9.8	138	76			
Age-Hardening Stainless Steels of Group 1										
Co13-Cr14.5-Fe/8al67-V0.4	AFC 77	K65770			9.5	227				
Group 2. Chromium, Nickel, Iron Alloys										
Al0.15-8-Cr16-Fe/8al53.9-Nb/Co0.5-Ni25-Ti2-Zr	Unitemp 212		7.92	0.029		689	606			Solution treated, aged
Al0.15-Cr14.7-Fe/8al95-Nb2.1-Ti2-Zr	Tindur					345	234			
Al0.35-Cr21.5-Co2.2-Fe30-Mn1-Mo3-Ni41.8-Ti0.8	Incoloy alloy 825, NICKAL K25	N08825	8.14	0.030	14.0					
Al0.35-Cr21.5-Co2.2-Fe30-Mn1-Mo3-Ni41.8-Ti0.8	V-57		7.96			586	482			Solution treated, aged
Al0.35-Cr21.5-Co2.2-Fe30-Mn1-Mo3-Ni41.8-Ti0.8	A-286, ATVS Mo, RGT 1	K66286	7.91	0.029	18.5	421	317		90	Solution treated, aged
Al0.25-Cr13.5-Fe34-Mo2-Ni42.7-Ti2.5	Incoloy alloy 901, RGT 8, Fe-PA 98-HT	N09901	8.21	0.030	13.1	551	441		131	Age-hardened
Al0.38-Cr21-Fe46-Ni32.5-Ti0.38	Incoloy alloy 800, NICKAL C	N08800	8.02	0.036	13.5	227	158		63	Solution hardened
Al0.38-Cr21-Fe46-Ni32.5-Ti0.38	Incoloy alloy 802		7.92		14.0	262	186		48	Annealed
Al1.8-Cr13-Fe68-Nb2.5-Mo6-Ni44-Ti3	P-780	K66979	8.23		14.0	555	558		228	Solution treated, aged
Al1.8-Cr13-Fe68-Nb2.5-Mo6-Ni44-Ti3	D-978		8.17			648	524			Solution treated, aged
Al1.5-Cr13-Fe/8al38.6-Mo5.5-Nb/Co0.6-Ni38-Ti2.5	CG-27	N09027				676	531			Solution treated, aged
Al1.5-Cr11.5-Fe/8al49.1-Ni38-Ti1.6	ATVS, AFNOR 25NCTDV25					434				
8-Cr13.5-Fe/8al54.5-Mn1.75-Mo1.8-Ni25-Ti2.85	W-545	K68545	7.89			552	448			Solution treated, aged
Cr11-Fe/8al86.8-Mo0.7-Nb/Co0.3-Ni0.8-V0.4	Werkstoff 14914LN, Fe-PW36, RNDD		7.97	0.055	10.5					
Cr13.5-Fe/8al55.8-Mo3-Ni25-Ti1.75	Discoloy, ATVS 2	K66220	7.90	0.033	15.3	358	282		103	Solution treated, aged
Cr16-Fe/8al50.7-Mn1.35-Mo6-Ni25	16-25-6, A151 650		8.06			310	234		93	
Cr16.5-Fe/8al66.2-Ni13.5-Ti0.7-W3	N5 190					313	265			
Cr17.5-Fe/8al68.1-Nb/Cb1.2-Ni11	F. C. 8, (T)					131				
Cr19-8-Fe/8al66.8-Mn1-Mo1.25-Nb/Co0.4-Nb-Ti0.03-W1.2	19-9DL, A151 651	K63198	7.93			303	255		90	
Cr19-Fe/8al68.3-Mo0.4-Nb/Co0.44-Nb-Ti0.4-W1.3	19-9WMO		7.94			283	234		59	
Cr19.2-Fe/8al66.7-Mn1-Mo1.5-Ni9-Ti0.55-W1.2	19-9DX	K63199	7.92			381	290			
Cr20-Fe/8al58-Mn1-Ni20.511	Incoloy 840					120				
Cr23-Fe/8al61-Ni12-W4	X2072									
High-Manganese Modifications of Group 2										
Cr20.5-Fe/8al63.5-Mn9-Ni6.5-N	21-6-9		7.83	0.033	16.7	231	189		70	Annealed
Group 3. Chromium, Nickel, Cobalt, Iron Alloys										
Al0.8-Co20-Cr18-Fe/8al79-Ni30-Ti2	ATVS 7		8.15	0.031	13.6	448	358			
Al0.85-8-Co1-Cr18-Fe/8al32.5-Mo5.25-Ni39-Ti2.35-Zr0.005	RE 11		8.02			482	378			
8-Co6.2-Cr10.6-Fe/8al71-Mo0.8-Nb/Co0.4-Ni0.7-Ni0.3-V0.3	Werkstoff 14911LN, Fe-NM38		7.80	0.050	10.3					
Co9.5-Cr14.3-Fe/8al52-Mo2-Nb/Co2.8-Ni14.6	Res. 328D									
Co10-Cr13-Fe/8al54.5-Mo1.8-Nb/Co3-Ni13-W2.5	G. 188					309	234			
Co19-Cr18-Fe/8al22.9-Mo3-Ni36-Ti2.6	Refraalloy 26, ATVS 7 Mo		8.19	0.036	14.0	551	434			
Co20-Cr20.5-Fe/8al25.4-Mo4-Nb/Co4-Ni20-W4	5-580, ATG XX, RGT 33, 1.4977 + 1.4978 DIN	R0590	8.24	0.030	13.0	345	262			Solution treated, aged
Co20-Cr21-Fe/8al30.2-Mn1.5-Mo3-Nb/Cb1-Ni20-Ni-W2.5	N-155, Multimet, ATG X, RGT 32, Fe-PA 91-HT	R30155	8.20	0.028	14.4	358	286		103	
Co30-Cr20-Fe/8al16.1-Mn2-Mo8-Ni21-W4.2	Refraalloy 70		8.62		13.0	386	288			
Group 4. Nickel Base Alloys										
Al0.2-Co0.5-Cr15-Fe40-Mo0.5-Nb/Co2.8-Ni41.5-Ti1.75	Inconel alloy 706(f)	N09706	8.08			441	365			Solution treated
Al0.2-Cr21.5-Fe2.5-Mo9-Nb1-Ti0.2	Inconel alloy 625, ATG E2	N06625	8.44	0.026	12.9	617	478			
Al0.3-Cr12.5-Fe35-Mo5.7-Ni42.5-Ti2.9	Nimonic 901		8.16	0.030	13.5	689	579			Age hardened
Al0.5-Cr19-Fe18.5-Mo3.05-Nb/Co5.13-Ni52.5-Ti0.9	Inconel alloy 718, Ni-P 100-HT, ATG C1, RGT 601	N07718	8.22	0.027	12.9	555	469			Age hardened
Al0.5-Co20-Cr20-Mo5.9-Ni51-Ti2	Nimonic 283, Inconel 263, Ni-P 105-HT, ATG MO, RGT 13, C 263	N07750	8.36	0.028	10.3					
Al0.7-Cr15.5-Fe7-Nb/Co0.95-Ni73-Ti2.5	Inconel alloy X-750, ATG F, RGT 6		8.25	0.028	12.6					
Al0.7-Cr15.5-Fe7-Ni75-Ti2.38	Inconel alloy 722		8.25			510	372		22	Age hardened
Al0.8-Cr: 20.5-Ni/8al76-Ti2.7	GOST E1 437 Bu		8.20			538	421			
Al1.8-Cr10-Cr19-Mo10-Nb/Co56.2-Ti2.6	M-252, J-1500	N07252	8.26	0.028	10.6	703	606			
Al1-Co12.5-Cr22-Mo9-Ni54	Nimocal 617		8.36			347	309			
Al1.2-Co16-Cr20-Fe5-Ni/8al54.6-Ti2.4	Nimocal 90(e)		8.36	0.031	11.6					
Al1.2-Co20-Cr28.5-Ni47.5-Ti2.3	Nimonic 81		8.08							

Nominal Composition (essential elements, weight percent)	Common Name(s) or Alloy Designation(s)	Related UNS No.	Density g/cm ³ (a)	Thermal Conductivity, 20-100°C Cal/(cm·sec·C)(b)	Coefficient of Thermal Expansion, 20-100°C (c) 10 ⁻⁶ /mm/(mm·C)(c)	Stress to Cause Rupture, MN/m ² (c)			Test Conditions
						550°C 100 hours	1200°F 100 hours	1800°F 1000 hours	
A11.2 Cr16.5 Fe34 Mo3.3 Ni43.5 Ti1.2	Nimonic PE16		8.02	0.028	11.3	448	360		
A11.25-8 Cr15 Fe22 Mo9 Nb9 Co2.25 Ni8 Al47.4 Ti2.5	Rene 62(f)		8.17			659	537		
A11.3 Cr19.5 Ni76 Ti2.5	Nimocast 80(e)		8.19			270	201		
A11.35 Cr23 Fe14.1 Ni80.5	Inconel alloy 601	N06601	8.16		13.7	255	183		As cast
A11.4-8 Co13.5 Cr19.5 Cu0.1 Fe2 Mo4.3 Ni8 Al55 Ti3 Zr0.09	Waspaloy A, Nimonic PK50, ATG W1, RGT 132	N07001	8.19	0.027	12.2	745	607		Solution treated Heat treated
A11.4-8 Co19.7 Cr24 Ni80.3 Ni8 Al50.6 Ti3 Zr0.06	Nimonic 101		8.04						
A11.4 Cr19.5 Ni75 Ti2.4	Nimonic 80A, Ni-P 85-HT, ATG S3, RGT 3, 2.463 TiLN	N07080	8.19	0.030	11.9	617	494		
A11.5-8 Co11 Cr19 Mo10 Ni8 Al45.3 Ti3.1	Rene 41, RGT 15, NC 20 KDTA	N07041	8.26	0.027	11.0				
A11.5 Co16.5 Cr19.5 Ni8 Al59 Ti2.5	Nimonic 90, Hi-P 96-HT, ATG S4, RGT 12, 2.463 TiLN	N07090	8.18	0.031	12.7	560	500		
A11.9-8 Co19.7 Cr22.4 Nb/Cb1 Ni48 Ti4 Ti3.7 W2	AF 1753		8.15						
A11.9 Co19 Cr22.4 Nb/Cb1 Ni48 Ti4 Ti3.7 W2	Nimocast 738		8.16						
A11.9 Co30 Ni86 Ti1.8	Nimonic 81		8.06	0.026	11.1				
A12 Co14 Cr18.5 Mo7 Ni85.9 Ti2	Nimonic PK33					710	602		
A12.5-8 Co18 Cr18 Mo3 Ni8 Al54.2 Ti5 W1.5	Udimet 710, ATG W4		8.09	0.028	12.1				Heat treated
A12.7 Co17.5 Cr18 Mo4 Ni64 Ti2.9	Nimonic PK25		8.02	0.027					
A12.8 B Co20 Co15.5 Nb/Cb2 Ni8 Al50 Ti2 Ti4.3 W3 Zr0.05	MARM 432		8.16						
A12.8 B Co18 Cr19 Fe4 Mo4 Ni8 Al47.2 Ti2.9	Udimet 500, Ni-P 94-HT, ATG W2, RGT 14	N07500	8.02	0.027	11.3	138	86		As cast
A13.5-8 Cr15 Cr15 Fe4.5 Mo5 Ni8 Al68.4 Ti2.5	GMR 235(e)		8.04			76			
A13 Co28.5 Cr15 Fe0.7 Mo3.75 Ni46 Ti2.2	Inconel alloy 700, ATG S8		8.16	0.031	12.4	689	592		Age-hardened
A13.19-8 Mo1.0 Co0.03 Cr27.5 Fe1 Ni8 Al68.1 V0.1	GOST EI 652			0.030	13.1		41		
A13.25-8 Cr17.5 Fe1 Ni79.5 Ti0.63	Inconel alloy 702		8.25						
A13.25-8 Cr17.5 Fe1 Ni79.5 Ti0.63	Nimocast 738	N07702	8.41			378	263		As cast
A13.3-8 Cr16 Mo1.8 Ni6 Ti1.6 Ti6 Ti3.4 W2.5	Rene 85		8.11						Age-hardened
A13.5-8 Co8 Cr14 Mo3.5 Nb/Cb3.5 Ni8 Al61.3 Ti2.5 W3.5 Zr0.05	GMR 235(d,e)		8.23	0.028	12.8	930	827		Heat treated
A13.75 Cr20.5 Fe1.5 Ni8 Al71.8 Ti2.5	GOST VZKhS-L2		8.06						
A13.75 Cr20.5 Fe1.5 Ni8 Al71.8 Ti2.5	Udimet 700, Nimonic 115, ATG W3		7.91	0.047		703			
A14.2 Co18 Cr15 Fe0.5 Mo4.5 Ni8 Al59 Ti4	Ford 406								
A14.5 Co10 Co6 Mo1 Nb/Cb2 Ni8 Al60 Ti4 Ti3.2 W8.5	Utemp AF 21DA		7.99			1033	861		Heat treated
A14.7 Co20 Cr15 Mo5 Ni83 Ti1.2	Nimonic 105, Ni-P 61-HT, RGT 16, NK 19 COAT		8.01	0.028	12.2				
A15 B Co10 Co9 Nb/Cb1 Ni8 Al60.3 Ti2 W12.5 Zr0.05	MAR-M 200(e), VMA-15		8.53			186	131		As cast
A15 Co13.2 Cr14.2 Mo4 Ni89 Ti4	Nimonic 115		7.85			121	70		
A15.5-8 Co10 Cr9 Mo2.5 Ni8 Al59 Ti4 Ti1.5 Ti1.5 W12 Zr0.05	Nimonic 115		8.44			186	124		As cast
A15.5-8 Co15 Cr10 Mo3 Ni8 Al60.6 Ti4 Ti1.5	Nimocast PK24, ATG W2, IN-100, Rene 100	N13100	7.75		12.9	172	103		As cast
A15.5 Co15 Cr9 Fe3 Mo3 Ni8 Ti4 Ti1.7 V1	Nimocast PK24, IN-100		7.75		12.9	172	103		As cast
A16 B Co10 Co8 Fe5 Mo3.5 Nb/Cb0.1 Ni8 Al63.5 Ti4.3 Ti1 W0.1 Zr0.07	B-1800(g)		8.22		11.7	179	106		
A16 Co6 Mo2 Ni73 W10.5	Nimocast PD21		8.53						
A16 Cr13.5 Mo4.5 Ni72 Ti0.9	Nimocast 713, PER 1		7.85			117	68		
A16.1-8 Cr12.5 Fe2.5 Mo4.2 Nb/Cb2 Ni8 Al70.9 Ti0.9 Zr0.1	Alloy 713C(e), Inconel alloy 713, ATG S9		7.91	0.050	10.6	145	90		As cast
Co1.5 Cr21.5 Fe18.5 Mo8 Ni48 W0.6	Nimonic PE13, Hastelloy X, Ni-P 93-HT, ATG E, RGT 5	N07713	8.23	0.028	11.5	362	258		
Co2.5 Co2.6 Fe4.5 Mo2.8 Ni8 Al62 V0.3	Hastelloy 8, ARC 162B	N10001	9.24	0.028	10.0	351	279		
Co2.5 Cr5 Fe4.5 Mo24.5 Ni8 Al59.8 V0.6	Hastelloy W	N10004	8.26						
Co2.5 Cr15.5 Fe4.3 Mo16 Ni8 Al55.4 V0.35 W3.75	Hastelloy C-276					386	282		
Co2.5 Cr16 Fe4.5 Mo17 Ni8 Al53.9 W4	Hastelloy C, ARC 6015	N10076	8.94	0.030	11.3	341	293		
Co3-Cr25 Fe18 Wn1.5 Mo3 Ni8 Al45.5 Ti1.25 W3	RA-333, ATG 33	N06002	8.24	0.030	14.2				Annealed
Co10 Cr22 Mo10 Ni57	Nimocast 242(e)	N06333	8.44		12.5				
Cr19.5 Fe14 Ni75 Ti0.4	Nimonic 75, Ni-P 91-HT, ATG R, RGT 0		8.37	0.032	12.6	551	478		
Cr20 Fe3 Mo6 Ni6 Ti W2.5	Nimocast PE10(e)		8.84			10	8		
						61	39		
Group 5. Cobalt Base Alloys									
A10.022 Co/Bal/73.7 Fe/1 Ni22.5 Ti1.8 Zr0.2	Niwo-10		8.65			372	296		
A13.5 Co/Bal/5B Cr21 Fe4.5 Nb/Cb2 Ni/W11 Y0.1	AlResist 13(e)		8.43			58	43		
B Co/Bal49.6 Cr/29.5 Ni10.5 W7	PSX-414 (e)		8.30			55	34		As cast
B Co/Bal52.5 Cr/25.5 Fe2 Ni10.5 W7.5	X-40, H5-31(e)		8.60			338	76		As cast
B Co/Bal58.4 Cr/21.5 Ti9 W10 Zr0.2	MAR-W 302(e)	R30031	9.21			110	75		As cast
B Co/Bal64.7 Cr/20 Wn1 Si1 W12.7	Haynes Alloy No. 151(e)		8.98			503	468		79
Co/Bal35.2 Cr/25 Fe1 Mo5.5 Ni32	Haynes Supalloy Alloy No. 27(e)					379	317		As cast
Co/Bal39.2 Cr22 Fe1.5 La Ni22 W14	Haynes Alloy No. 188					41	25		
Co/Bal47.3 Cr/20 F4 Mn1.2 Mo4 Nb/Cb4 Ni20 W4	5-B16, RGT 35		9.13	0.030	12.1	386	303		As cast
Co/Bal47.3 Cr/25 Fe3 Mn1 Mo4 Nb/Cb2 Ni20 W2	V-36		8.70	0.030	12.1	386	303		As cast
Co/Bal50.3 Cr/26 Fe1 Mo5 Ni15	Haynes Supralloy Alloy No. 30(e)		8.79			124	90		
Co/Bal50.9 Cr/28 Fe19 Nb/Cb2.1	UMCD 51		7.79			69	49		As cast
									Wrought

TABLE 4. (Continued)

Nominal Composition (essential elements), weight percent	Common Name(s) or Alloy Designation(s)	Related UNS No.	Density, g/cm ³ (a)	Thermal Conductivity, 20-100 °C Cal/cm/sec/°C(b)	Coefficient of Thermal Expansion, 20-100 °C 10 ⁻⁶ mm/mm/°C(c)	Stress to Cause Rupture, MN/m ² (d)	Test Conditions
Co-8al51C-28Fe-21	UMCO 50		8.05	0.031		14	Wrought
Co-8al52.9C-20Fe-3Mn-1.5Ni-10W-15	WF 11, LB05, HS-25, Co-P 92-HT, ATG H, RGT 36	R30605	9.13	0.037		48	Solution treated
Co-8al54.7C-24Ni-10Ta-3.5Ti-0.2W-7Zr-0.5	MAR-M 500(e)		8.96			26	
Co-8al61.5C-21Fe-2Nb/Cb2-Ni-1W-11	WI 52, HS 152(e)		8.87	0.058	12.5	96	As cast
Co-8al62C-27Fe-1Mo-5Ni-3	Haynes Stellite Alloy No. 21(e)	R30021	8.30		12.6	65	As cast
Co-8al66.7C-24Fe-1Mo-5Ni-2	Haynes Stellite Alloy No. 23(e)	R30023				59	As cast
Co-8al71C-21.5Ti-4.5Ti-0.75W-9Zr-2.25	MAR-M 322(e)		8.91			138	As cast

(a) 1 g/cm³ = 0.0361 lb/in³.(b) 1 cal/cm/sec/°C = 242 Btu/ft²/hr/°F = 418 W/mK.

(c) 1 °C = 1.8 °F.

(d) 1 MN/m² = 145 psi = 0.1 hbar.

(e) Cast alloy.

(f) Development alloy.

TABLE 5. TYPICAL SUPERALLOYS OFFERED IN AUSTRIA

Nominal Composition, weight percent (Essential Elements Only)	Austrian Designation	Related UNS Number	Related International Designations
Group 1. Ferritic (Martensitic) Stainless Steel			
Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25	20 MV	S42200	1.4922 DIN
		S42200	X20CrMoV 12 1
Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25, W1	20 MVW	S42200	1.4935 DIN
		S42200	1.4934 LN
		S42200	X20CrMWV 12 1
Al0.2,B,Cr15,Fe/Bal53,Mo1.25, Ni26,V0.3	Turbotherm 1525 T	K66286	A-286
		K66286	V-57
		K66286	1.4943 LN
		K66286	1.4944 LN
		K66286	1.4980 DIN
		K66286	X5NiCrTi26 15
Cr14,Fe/Bal85.5,Mo0.05	Styria RKW	—	—
Cr13,Fe/Bal86,Mo1	Turbotherm 15 M	—	—
Group 2. Cr,Ni,Fe Alloys			
Al0.38,Cr21,Fe46,Ni32.5,Ti0.38	Phoenix R800	N08800	Incoloy 800
	Phoenix R800 H	N08810	Incoloy 800 H
Al0.58,Cr21,Fe46,Ni32.5,Ti0.15	Phoenix R802	—	Incoloy 802
Al0.15,Cr21.5,Cu2.2,Fe30,Mn1, Mo3,Ni41.8,Ti0.9	Phoenix R825	N08825	Incoloy 825
Cr16,Fe/Bal66,Mo2,Ni15,Nb	Turbotherm 12	—	—
Cr16,Fe/Bal66,Mo2,Ni16,Nb	Turbotherm 1616 M	—	—
Cr16,Fe/Bal69,Ni13	Turbotherm 1613 MV	—	—
Group 3. Cr,Ni,Co,Fe Alloys			
Co20,Cr21,Mo3,Nb/Ta1,Ni20,W2.5	Turbotherm 20 Co 20	R30155	N-155
		R30155	1.4971 DIN
		R30155	1.4974 LN
Co10,Cr13,Mo2,Nb/Ta3,Ni13,W2.5	Turbotherm 13 Co 10	—	1.4960 DIN
Co20,Cr17,Mo4,Nb/Cb2,Ni35,W4	Turbotherm 35 Co 20	—	X40 CrNiCoNb 13 13
Group 4. Nickel Base Alloys			
Al1.4,Cr19.5,Ni75,Ti2.4	Phoenix R75	—	Nimonic 75
	Bohler Nimonic 80A	N07080	Nimonic 80A

TABLE 5. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Austrian Designation	Related UNS Number	Related International Designations
Group 4. Nickel Base Alloys (Continued)			
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	Bohler Nimonic 90	N07090	Nimonic 90
Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	Bohler Nimonic 105	—	Nimonic 105
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73, Ti2.5	Bohler Inconel X-750	N07001	Inconel X-750
Al2,B,Co12,Cr19,Mo6,Ni/Bal56.9, Ti3,W1	Bohler Udimet 520	—	Udimal 520
Al1.4,B,Co13.5,Cr19.5,Fe2,Mo4.3, Ni/Bal55,Ti3,Zn	Bohler Waspaloy	N07001	Waspaloy
Group 5. Cobalt Base Alloys			
Co49.6,Cr28,Fe21	Phoenix R50 Co	—	UM Co 50
Co45,Cr20,Ni20,Nb/Cb3.2,W4.5	Turbotherm 20 Co 45	R30816 R30816 R30816 —	S-816 2.4989 DIN X40CoCrNi45 20 G-X40CoCrNi45 20
Co50,Cr20,Ni10,W15	Turbotherm 20 Co 50	R30605 R30605 R30605 R30605 R30605	HS-25 L-605 2.4964 LN 2.4967 DIN CoCr20W15Ni
Co/Bal66,Cr26,Fe0.5,Ni0.55,W7.3	Turbotherm 26 Co 60	— —	1.4966 G-X55CoCrNi55 25

TABLE 6. TYPICAL SUPERALLOYS OFFERED IN CZECHOSLOVAKIA AND POLAND

Nominal Composition, weight percent (Essential Elements Only)	Common Alloy Designation	Related UNS Number	Related International Common Name(s) or Designation(s)
<u>CZECHOSLOVAKIAN</u>			
<u>Group 1. Ferritic (Martensitic) Stainless Steels</u>			
Cr11.5,Fe/Bal85.6,Mn1,Mo1, Ni0.5,W0.45	CNS4 17134	—	—
<u>Group 2. Cr,Ni,Fe Alloys</u>			
Cr14,Fe/Bal75,Ni11	CNS4 17225	—	—
Cr20.5,Fe/Bal35.5,Mo5.5,Ni38,Ti0.5	CNS4 17252	—	—
Cr13.5,Fe/Bal70.3,Mo1.1,Ni12.5, Ti0.5,V0.55,W1.5	CNS4 17331	—	—
Cr14.2,Fe/Bal45.1,Ni36,Ti1.55,W3.2	CNS4 17335	—	—
Al0.5,Cr16.3,Fe/Bal76.3,Ni6.2,Ti0.75	CNS4 17351	—	—
Cr14,Fe/Bal75,Ni11	CNS4 17225	—	—
<u>Group 3. Cr,Ni,Co,Fe Alloys</u>			
Cr18,Fe/Bal59.2,Mo3.25,Ni19.5	Poldi AKCM	—	—
Cr12.5,Fe/Bal72.4,Ni12.5,W2.6	Poldi Kapton	—	—
Cr12.5,Fe/Bal72.8,Ni12.5,W2.2	Poldi L-AKR	—	—
Cr15,Fe/Bal69.7,Ni13,W2.3	Poldi L-AKRD	—	—
<u>POLISH</u>			
<u>Group 2. Cr,Ni,Fe, Alloys</u>			
14Cr,Fe/Bal69.3,Mo0.32, Ni14,W2.37	PN4H14N14W2N	—	—
<u>Group 2A. Cr,Ni,Fe,Mn Alloys</u>			
Cr21,Fe/Bal65.2,Mn9,Ni3.87	PN50H21G9N4	—	—

**TABLE 7. TYPICAL SUPERALLOYS SPECIFIED BY THE EUROPEAN ECONOMIC COMMUNITY
(EURONORM PROPOSED STANDARDS)**

Nominal Composition, weight percent (Essential Elements Only)	European Draft Standard	Related UNS Number	Related International Common Name(s) Designation(s)
Group 1. Ferritic (Martensitic) Stainless Steels			
Cr12,Fe/Bal83.5,Ni2.5,N,Mo1.75, V0.3	prEN2277,2278,2279,2280	—	1.4939 LN
		—	FE-PM 37
		—	Z 12 CND 12
		—	R NOD Co
Group 2. Cr,Ni,Fe Alloys			
Cr13.5,Fe/Bal55.8,Mo3,Ni25, Ti1.75	prEN2173,2174,2175	K66220	Discaloy
		K66220	1.4943 LN
		K66220	FE-PA 93-HT
		K66220	ATVS 2
Al0.2,B,Cr15,Fe/Bal53,Mn1.4, Mo1.25,Ni26,Ti2.15,V0.3	prEN2119,2171,2172	K66286	A-286
		K66286	RGT 1
		K66286	Z06 NCT 25
		K66286	1.4944 LN
		K66286	FE-PA 92-HT
		K66286	DTD 5026
		K66286	1.4980 DIN
K66286	ATVS Mo		
Group 3. Cr,Ni,Co,Fe Alloys			
Co20,Cr21,Fe/Bal30.2,Mn1.5, Mo3,Nb/Cb1,Ni20,N,W2.5	prEN2167,2168,2169,2170, 2237,2238,2239	R30155	Multimet N-155
		R30155	1.4974 LN
		R30155	RGT 32
		R30155	FE-PA 91-HT
		R30155	1.4971 DIN
		R30155	Z 12 CNKDW 20
		R30155	ATG X
Group 4. Nickel Base Alloys			
Cr19.5,Fe4,Ni75,Ti0.4	prEN2293,2294,2302,2306,2307, 2308	—	Nimonic 75
		—	2.4630 LN
		—	RGT 0
		—	NI-P 91-HT
		—	2.4951 DIN
Al1.4,Cr19.5,Ni75,Ti2.4	prEN2188,2189,2190,2191	—	ATG R
		N07080	Nimonic 80A
		N07080	2.4631 LN
		N07080	RGT 3
		N07080	NI-P 95-HT
		N07080	BS 2HR 1
		N07080	BS HR 201
N07080	BS 2HR 401		

TABLE 7. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	European Draft Standard	Related UNS Number	Related International Common Name(s) Designation(s)
Group 4. Nickel Base Alloys (Continued)			
		N07080	BS HR 601
		N07080	MH.07
		N07080	ATG S3
		N07080	2.4952 DIN
		N07080	NiCr 20 Ti Al
		N07080	NC 20 TA
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	prEN2295,2296,2297,2298,2299	N07090	Nimonic 80
		N07090	2.4632 LN
		N07090	NI-P 96-HT
		N07090	RGT 12
		N07090	2.4969 DIN
		N07090	NC 20 KTA
		N07090	NiCr 20 Co 18 Ti
		N07090	ATG S4
Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	prEN2179,2180,2181	—	Nimonic 105
		—	2.4634 LN
		—	NI-P 61-HT
		—	NK 19 CDAT
		—	RGT 15
Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2	prEN2199,2200,2201,2202,2203	—	C-263
		—	Nimonic 263
		—	2.4650 LN
		—	NI-P 105-HT
		—	BS HR 10
		—	BS HR 206
		—	NCK 20D
		—	RGT 131
		—	ATG W0
Al1.4,B,Co13.5,Cr19.5,Cu0.10, Fe2,Mo4.3,Ni/Bal55,Ti3, Zr0.09	prEN2193,2194,2195	N07001	Waspaloy
		N07001	2.4654 LN
		N07001	NI-P 101 HT
		N07001	ATG W1
Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5, Ti2.9	prEN2176,2177,2178	N09901	Nimonic 901
		N09901	2.4662 LN
		N09901	FE-PA 99-HT
		N09901	2.4975 DIN
		N09901	Incoloy 901
		N09901	NC 14 FEDT
		N09901	Ni Fe Cr 12 Mo
		N09901	RGT 8

TABLE 7. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	European Draft Standard	Related UNS Number	Related International Common Name(s) Designation(s)
Group 4. Nickel Base Alloys (Continued)			
Co1.5,Cr22,Fe18.5,Mo9, Ni/Bal47.3,W0.6	prEN2182,2183,2184,2185	N06002	Hastalloy X
		N06002	Nimonic PE 13
		N06002	2.4665 LN
		N06002	NI-P 93-HT
		N06002	NC 22 FeD
		N06002	BS HR 6
		N06002	BS HR 204
		N06002	MH.03
		N06002	NiCr 22 Fe 18 Mo
Al6.1,B,Cr12.5,Fe2.5,Mo4.2, Nb/Cb2,Ni/Bal70.9,Ti0.8, Zr0.10	prEN2192	N07713	Inconel Alloy 713 C
		N07713	2.4670 LN
		N07713	NI-C 98-HT
		N07713	ATG S9
		Al5.5,B,Co15,Cr10,Mo3, Ni/Bal 60.6,Ti4.7,V1,Zr0.06	prEN2233
N13100	2.4674 LN		
N13100	NI-C 104-HT		
N13100	Nimocast		
N13100	ATG M2		
N13100	PK 24		
Group 5. Cobalt Base Alloys			
Co/Bal55.5,Cr26,Ni11,W7.5	prEN2161	—	2.4682 LN
		—	CO-C 91-HT
Co/Bal52.9,Cr20,Mn1.5,Ni10,W15	prEN2162,2163,2164,2165,2166	R30605	HS 25
		R30605	L605,WF-11
		R30605	2.4964 LN
		R30605	CO-P 92-HT
		R30605	2.4967 DIN
		R30605	RGT 36
		R30605	ATG H

TABLE 8. TYPICAL SUPERALLOYS OFFERED IN FRANCE

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations						
Group 1. Ferritic (Martensitic) Stainless Steel							
Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4	—	Fe-PM 35	Z 20 CDNb 11	9165-011	—	—	—
Cr11.5,Fe/Bal86.7,Mo0.60,Nb/Cb/Ta0.25, Ni0.70,V0.3,N0.04	—	Fe-PM 36	Z 18 CDVNB 11	—	—	—	1.4914 LN X 18 CrMoVNB 12 1 RNOD
Cr12,Fe/Bal83.5,Mo1.75,Ni2.5,V0.3,N0.03	—	Fe-PM 37	Z 12 CND 12	—	—	—	1.4939 LN prEN2277,2278, 2279,2280 RNOD Ni
Cr25,Fe/Bal54.5,Ni20.5	—	—	Z 6 CN 25	9165-031	—	—	—
Cr17,Fe/Bal69.9,Ni12.5,Ti0.6	—	—	Z 10 CNW 17	9165-041	—	—	—
Group 2. Cr,Ni,Fe Alloys							
Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26 Ti2.15,V0.3	ATVS Mo	Fe-PA 92-HT	Z 6 NCT 25 Z 06 NCT 25 E-Z6NCT 25	9165-071	K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286	A 286 DTD 5026 1.4944 LN DIN 1.4980 DIN prEN2119,2171, 2172 X 5NiCrTi 26 15 RGT 1 AMS 5525,5731, 5732,5734,5735, 5736,5737,5804, 5805 AISI 660	

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations						
Group 2. Cr,Ni,Fe Alloys (Continued)							
Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75	ATVS 2	—	Fe-PA 93-HT	Z3 NCT 25 Z4 NCDT 26	9165-061	K66220	Discaloy
						K66220	1.4943 LN
						K66220	prEN2173,2174, 2175
						K66220	AMS 5733 D
						K66220	RGT 101
Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9	—	—	Fe-PA 99-HT	Z8 NCDT 42 Z8 NCDT 42 NC 14 FeDT	9165-081	N09901	Nimonic 901
						N09901	Inco 901
						N09901	Inco 0104
						N09901	prEN2176,2177, 2178
						N09901	BS HR 53
						N09901	BS HR 404
						N09901	AMS 5660,5661
						N09901	NiFeCr 12 Mo
						N09901	AMS 5660,5561
						N09901	MH.16
						N09901	2.4662 LN
Al0.38,Cr21,Fe46,Ni32.5,Ti0.38	Nical C Pyrad 33	—	—	25 NC 35 20	—	N08800	Incoloy alloy 800
						N08800	ISO No. 8
						N08800	AT 30
						N08800	ASM 5766,5871
						N08800	NCF 2
Al0.38,Cr21,Cu0.35,Fe/Bal46,Ni32.5,Ti0.38	Nical C2	—	—	—	—	N08810	Incoloy alloy 800H
						N08810	ISO No. 9
						N08810	Chromax
						N08810	NCF 2H
						N08810	ASTM B 163,B 407, B 408,B 409, B 564

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations	Designations					
Group 2. Cr,Ni,Fe Alloys (Continued)							
Cr2.05,Fe44.5,Ni32,Ti1.13	Nical CT	—	—	—	—	N08801 N08801	Incoloy alloy 801 ISO No. 10
Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8, Ti0.9	Nical K25	—	NC 21 Fe DU	—	—	N08825 N08825	Incoloy alloy 825 ISO No. 11
Al1.8,Cr15,Fe27,Mo4,Ni45,Ti3,W4	—	—	—	—	—	K66979 K66979 K66979	D-979 RGT 9 AMS 5509,5746
Cr20,Cu3.5,Fe/Bal36,Mo2.5,Ni37.5,Nb0.5	Nicromaz 20	—	—	—	—	— —	ISO No. 21 20 Cb 3
Group 3. Cr,Ni,Co,Fe Alloys							
Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1, Ni20,N,W2.5	ATG X	Fe-PA 91-HT	Z 12 CNKDW 20	9 165-081	—	R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155 R30155	N 155 Multimet 1.4971 DIN AISI 661 1.4971 DIN 1.4974 LN RGT 32 prEN2167,2168, 2169,2170,2237, 2238,2239 X12 CrCoNi 21 20 AMS 5531,5532, 5585,5768,5769, 5794,5795
Co6.5,Cr10.5,Fe/Bal81.25,Mo0.8,Ni0.7, Nb/Cb/Ga0.25	—	Fe-PM 38	Z 10 CKD 10	9 165-021	—	— — —	1.4911 LN RNOD Co X 8 CrCoNiMo 10 6

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations						
Group 3. Cr,Ni,Co,Fe Alloys (Continued)							
Co19,Cr18,Fe/Bal22.9,Mo3,Ni36,Ti2.6	ATVS 7 Mo	—	—	Z6 NKCDT 38	—	—	Refractaloy 26
Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39, Ti2.35,Zr0.005	—	—	—	Z8 NC D38	—	—	Nimonic PE 11 DTD 5037 X 8 NiCrMoTi 38 18
Al0.8,Co20,Cr18,Fe/Bal29.2,Ni30,Ti2	ATVS 7	—	—	Z10 NKC 30	—	—	—
Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4, Ni20,W4	ATG XX	—	—	Z42 CKNDW 20 Z42 CKNDNbW 20	—	R30590 R30590 R30590 R30590 R30590 R30590 R30590	S 590 1.4977 DIN + 1.4978 DIN X 40 CoCrNi 20 20 + X 50 CoCrNi 20 20 RGT 33 AMS 5533,5770
Group 4. Nickel Base Alloys							
Al6,Cr13.5,Mo4.5,Ni72,Ti0.9	ATG S9	Ni-C 98-HT	—	NC 13 AD	—	N07713 N07713 N07713 N07713 N07713 N07713 N07713 N07713	Nimocast 713 Alloy 713 C 2.4670 LN prEN2192 Inconel 713 C AMS 5391 BS HC 203 2.4670 LN G-NiCr 13 Al 6 Mo Nb MH.31
Cr20,Fe3,Mo6,Ni61,W2.5	—	Ni-C 103-HT	—	NC 20 Nb	—	— —	Nimocast PE 10 BS HC 202
Al5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7, V1,Zr0.06	ATG M2	Ni-C 104-HT	—	NK 15 CAT	—	N13100 N13100 N13100 N13100 N13100 N13100	IN 100 Nimocast PK 24 AMS 5397 BS HC 204 2.4674 LN prEN2233

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French Proprietary Alloy Designations	AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
Group 4. Nickel Base Alloys (Continued)						
Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	—	Ni-P 61-HT	NKCD 20 ATv NK 19 CDAT NK 20 CDA	9165-191	—	Nimonic 105 BS HR 3 MH.14 2.4634 LN NiCo Cr 15 MoAlTi RGT 16 prEN2179,2180,2181 DTD 5007 A
Cr19.5,Fe4,Ni75,Ti0.4	ATG R P.E.R. 1	Ni-P 91-HT	NC 20 T	9165-091	—	Nimonic 75 Nimocast 75 BS HR 5 BS HR 203 BS HR 403 BS 2HR 504 2.4630 LN 2.4951 DIN ISO No. 12 BS ANC 8 NiCr 20 Ti DTD 703 B RGT 0 prEN2293,2294, 2302,2306,2307, 2308
Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6	ATG E Pyrad 49D	Ni-P 93-HT	NC 22 Fe D	9165-131	N06002 N06002 N06002 N06002 N06002 N06002 N06002 N06002	Hastelloy X Nimonic PE 13 2.4613 DIN 2.4665 LN AMS 5536,5587, 5588,5754,5798,5799 NiCr 22 FeMo 2.4972 DIN

Nominal Composition, weight percent (Essential Elements Only)	French		AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations	AECMA Material Designations				
Group 4. Nickel Base Alloys (Continued)						
Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9	ATG W2	Ni-P 94-HT	NC 20 KDTA NCK 18 DAT NCK 19 DAT	9165-141	N06002	prEN2182,2183, 2184,2185
					N06002	ISO No. 19
					N06002	RGT 5
					N06002	BS HR 6
					N06002	BS HR 204
					N06002	MH.03
					N06002	2.4665 LN
					N06002	NiCr 22 Fe 18 Mo
					N07500	Udimet 500
					N07500	2.4983 DIN
Al1.4,Cr19.5,Ni75,Ti2.4	ATG S3	Ni-P 95-HT	NC 20 TA	9165-101	N07500	NiCr 18 Co
					N07500	RGT 14
					N07500	AMS 5751,5753
					N07500	Nimonic PK 25
					N07080	Nimonic 80A
					N07080	Nimocast 80
					N07080	BS 2HR 1
					N07080	BS HR 201
					N07080	BS 2HR 401
					N07080	BS HR 601
					N07080	prEN2188,2189, 2190,2191
					N07080	DTD 736B
					N07080	BS ANC 9
					N07080	MH.07
					N07080	2.4631 LN
					N07080	2.4952 DIN
					N07080	NiCr 20 TiAl
					N07080	RGT 3

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations						
Group 4. Nickel Base Alloys (Continued)							
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	ATG S4	Ni-P 96-HT	NC 20 KTA NC 20 KTA NCK 20 TA NC 20 K17TA	9165-161		N07090	Nimonic 90
						N07090	Nimonic 93
						N07090	Nimocast 90
						N07090	BS 2HR 2
						N07090	BS 2HR 202
						N07090	BS HR 402
						N07090	BS 2HR 502
						N07090	BS 2HR 501
						N07090	BS 2HR 503
						N07090	prEN2295,2296,
						N07090	2297,2298,2299
						N07090	DTD 747B, 5027
						N07090	BS ANC 10
						N07090	AMS 5829
						N07090	MH.10
Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13, Ni52.5,Ti0.9	ATG C1	Ni-P 100-HT	NC 19 Fe Nb	9165-121		N07718	Inconel 718
						N07718	MH.06
						N07718	2.4668 LN
						N07718	NiCr 19 NbMo
						N07718	RGT 601
						N07718	prEN5589,5590,
						N07718	5596,5597,5663,
						N07718	5664,5832,5662
						N07718	AMS 5589,5590,
						N07718	5596,5597,5662,
						N07718	5663,5664,5832

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		Group 4. Nickel Base Alloys (Continued)				Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations	AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations				
Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3, Ni/Bal55,Ti3,Zr0.09	ATG W1	Ni-P 101-HT	NC 20 K 14	9165-111	N07001	Waspaloy		
					N07001	Nimonic PK 50		
					N07001	AMS 5544,5704,		
					N07001	5706,5707,5709,		
					N07001	5828		
					N07001	RGT 132		
					N07001	2.4054 DIN		
Al5,Co13.2,Cr14.2,Mo4,Ni59,Ti4					N07001	2.4654 LN		
					N07001	prEN2193,2194,2195		
						Nimonic 115		
						BS HR 4		
						2.4636 LN		
						NiCo Cr 15 MoAlTi		
						Nimonic 263		
Al0.5,Co20,Cr26,Mo5.9,Ni51,Ti2	ATG W0 P.E.R. 263	Ni-P 105-HT	NCK 20 D	9165-151		C263		
						prEN2199,2200,		
						2201,2202,2203		
						BS HR 10		
						BS HR 206		
						2.4650 LN		
						RGT 131		
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5						ISO No. 16		
	ATG F	—	NC 15 FeT(Nb) NC 15 FeTNbA	—	N07750	Inconel X-750		
					N07750	MH.04		
					N07750	AMS 5542,5582,		
					N07750	5598,5667,5668,		
					N07750	5669,5671,5698,		
					N07750	5699,5778		
				N07750	RGT 6			
				N07750	AISI 688			

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French Proprietary Alloy Designations	AECMA Material Designations	AFNOR Alloy Designations ^(a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
Group 4. Nickel Base Alloys (Continued)						
Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4,V0.35, W3.75	ARC 6015	—	NC 17 DWY NCD 16 Fe	—	N10002 N10002 N10002 N10002 N10002 N10002	Hastelloy C 2.4602 2.4537 Ni Mo 16 Cr W AMS 5388 BS ANC 16
Al2,B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2	—	—	NC 19 KDu/v	—	—	Nimonic PK 33 DTD 5057 NiCr 18 Co 14 MoTiAl
Al1.4,Cr20,Fe1,Mo4.5,Ni/Bal71.7,Ti2.4	—	—	NC 20 DTA	—	— — —	2.4976 DIN NiCr 20 Mo RGT 4
Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1	—	—	NC 20 KDTA	—	N07041 N07041 N07041 N07041 N07041 N07041 N07041 N07041 N07041 N07041 N07041	René 41 2.4973 DIN NiCr 19 CoMo RGT 15 RGT 13 AMS 5399,5545, 5712,5713,5800, 7469 NiCr 20 CoMo 2.4982 DIN
Cr20,Fe3,Mo6,Ni61,W2.5	—	—	NC 20 Nb DW	—	— — —	Nimocast BS ANC 19 PE 10
Co10,Cr22,Mo10,Ni57	—	—	NC 21 AK 10	—	— — —	Nimocast 242 C242 BS ANC 11

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		AECMA Material Designations	AFNOR Alloy Designations ^(a)	AIR Alloy Designations	Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations	Designations					
Group 4. Nickel Base Alloys (Continued)							
A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2	ATG E2	—	—	NC 22 Fe D Nb	—	N06625 N06625	Inconel 625 2.4856
A12.5,B,Co15,Cr18,Mo3,Ni/Bal54.2,Ti5,W1.5	ATG W4	—	—	NCK 18 TDA	9165-181	—	Udimet 710
Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	ARC 1628	—	—	ND 27 Fe V ND 28 Fe KV	—	N10001 N10001 N10001 N10001 N10001 N10001 N10001 N10001	Hastelloy B 2.4600 BS ANC 15 AMS 5396 2.4482 Ni Mo 30 ISO No. 23
A14.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3, Ti3.5	ATG W3	—	—	NK 18 CDAT	9165-171	—	Udimet 700
A13,Co28.5,Cr15,Fe0.7,Mo3.75,Ni46,Ti2.2	ATG S8	—	—	NK 27 CADT	—	—	Inconel 700
A11.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2	—	—	—	NW 11 AC	—	— — — —	Nimonic PE 16 BS HR 11 BS HR 207 X8 NiCrMoTiAl 43 16
Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5, Si1.25,W3	ATG 33	—	—	Z6 NCKDW 45	—	N06333	RA 333
A11.35,Cr23,Fe14.1,Ni60.5	Nicral Z A	—	—	—	—	N06601 N06601	Inconel alloy 601 ISO No. 5
Group 5. Cobalt Base Alloys							
Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14	—	—	CO-C 91-HT	KCN 22 W	9165-211	R30188 R30188 R30188 R30188	Haynes alloy 188 AMS 5608,5772,5801 2.4682 LN prEN2161

TABLE 8. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	French		Group 5. Cobalt Base Alloys (Continued)				Related UNS Number	Related International Common Name(s) or Designation(s)
	Proprietary Alloy Designations	AECMA Material Designations	AFNOR Alloy Designations (a)	AIR Alloy Designations				
Co/Bal52.9,Cr20,Mn1.5,Ni10,W15	ATGH	CO-P 92-HT	KC 20 WN	9165-201	R30605	HS 25,L-605,Wf-11		
					R30605	2.4964 LN		
					R30605	RGT 36		
					R30605	prEN2162,2163,		
					R30605	2164,2165,2166		
					R30605	2.4967 DIN		
					R30605	CoCr 20 W 15 Ni		
B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5	—	—	KC 25 NW	—	R30031	AMS 5537,5759,		
					R30031	5796,5797		
					R30031	X40, HS 31		
					R30031	Ross ST 31		
					R30031	BS ANC 13		
					R30031	AMS 5382		
					R30031	2.4966		
Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4, Ni20,W4	—	—	KCN 20 DNbW	—	R30031	CoCr 25 NiW		
					R30816	S-816		
					R30816	AMS 5534,5765		
					R30816	2.4989 DIN		
					R30816	CoCr 20 Ni 20 W		
					R30816	RGT 35		
					R30021	Stellite 21		
Co/Bal62,Cr27,Fe1,Mo5,Ni3	—	—	KC 27 D N	—	R30021	Ross ST 8		
					R30021	BS ANC 14		
					R30021	AMS 5385		
					R30021	2.4979		
					R30021	Co Cr 28 Mo		

TABLE 8. (Continued)

Footnotes

(a) EXPLANATION OF DESIGNATIONS OF FRENCH AFNOR ALLOYS

The designation of the alloys is based on their chemical composition and is formed by series of letters and numbers.

The first letter indicates the basic element (e.g., N: Nickel, K: Cobalt, C: Chromium, etc.).

The group of letters and numbers which follow are sometimes separated from the first letter by a hyphen. These letters indicate the most important alloying elements, arranged in order of decreasing percentage content. The average percentage content by weight of a principal alloying element is indicated by a number following the symbol for that element.

When the basic element is Iron, the designation starts with Z and is followed by a number indicating the average percentage by weight, multiplied by 100, of the carbon content. The remainder of the designation is as described above except that the number designating the percentage of the principal alloying element is placed after the symbols of the elements.

The symbols used are as follows:

A — Aluminium	Nb — Niobium
C — Chromium	S — Silicon
D — Molybdenum	T — Titanium
Fe — Iron	Ta — Tantalum
G — Magnesium	U — Copper
H — Thorium	V — Vanadium
K — Kobalt	W — Tungsten
M — Manganese	Z — Zinc
N — Nickel	

As a rule, only the percentage of the first of the principal elements is mentioned, the percentage of the others only being added to resolve any ambiguity with a similar alloy.

e.g., Z — 12 CNKDW 20 is an alloy with an iron base containing about 0.12% of Carbon, 20% of Chromium and decreasing quantities (less than 20%) of Nickel, Cobalt, Molybdenum and Tungsten.

N-C20TA is a Nickel based alloy containing about 20% of Chromium and lesser quantities of Titanium and Aluminum.

More detailed information may be obtained from the specification NF-A 02-001 issued by

L'Association Francaise de Normalisation (AFNOR),
Tour Europe
Cedex 7
92080 Paris La Defense, France

TABLE 9. TYPICAL SUPERALLOYS OFFERED IN WEST GERMANY

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr					Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
	German Proprietary Alloy Designation	Werkstoff		Luftfahrt- werkstoff-Nr.				
		DIN 17 007	German Material Number (a)	(LN) German Aeronautical Material Number (a)	German			
Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1	—	1.4935	—	—	X20CrMoWV12 1	S42200 S42200 S42200	422 Vaccutherm 5-36 Sandvik HT9	
Group 1. Ferritic (Martensitic) Stainless Steels								
Group 2. Cr,Ni,Fe Alloys								
Cr11,Fe/Bal87.8,Mo0.7,Nb/Cb0.4, Ni.85,V0.4	RNOD	—	1.4914	—	X18CrMoVNB12 1	—	FE-PM 36 Z 18 CDV Nb 11	
Cr11.5,Fe/Bal86.6,Mo1.05,Ni0.6,V0.3	—	—	1.4924	—	—	—	—	
Cr11.5,Fe/Bal86.2,Mo1,Ni0.5,V0.3,W0.5	—	1.4923	1.4934	—	—	—	X22CrMoV12 1 Vaccutherm 5-34 RNO MoV Turbotherm KW 20 MV BVT 130V	
Cr12,Fe/Bal83.4,Mo1.8,Ni2.5,V0.3	RNOD Ni Vaccutherm 5-38	—	1.4939	—	—	—	Jethete 152 Fe-PM 37 prEN2277,2278, 2279,2280 Z 12 CND 12 AMS5046,5066	

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	German Proprietary Alloy Designation	Werkstoff-Nr			Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
		Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German	Aeronautical Material Number (a)			
		German Material Number	German Material Number (a)	German Material Number (a)			
Group 2. Cr, Ni, Fe Alloys (Continued)							
Cr15, Fe/Bal58.2, Ni25, Ti1.8	Vaccutherm 7-20	—	1.4943	—	—	—	A286Low Ti Discaloy FE-PA 93-HT prEN2173,2174, 2175 Z3 NCT 25 Z4 NCDT 20 ATVS 2
		—	—	—	—	—	—
		—	—	—	—	—	—
		—	—	—	—	—	—
		—	—	—	—	—	—
Al0.2, B, Cr15, Fe/Bal53, Mn1.4, Mo1.25, Ni26, Ti2.1, V0.3	RGT 1 Vaccutherm 7-20	1.4980	1.4944	X5NiCrTi26 15	K66286	A286 FE-PA 92-HT prEN2119,2171, 2172 Z06 NCT 25 Z6 NCT 25 DTD AMS5026,5076, 5525,5731,5732, 5734,5735,5736, 5737,5804,5805 ASTMA 453 Grade 660 ATVS Mo	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
		—	—	—	K66286	—	
Cr16.5, Fe/Bal65.3, Mo1.75, Nb/Cb, Ni16.5	—	1.4981	1.4984	—	—	—	
		1.4876	2.4856	X10NiCrAlTi32 20	N08800	Incoloy 800 25 NC 35 20 Nical C AT3 Pyrad 33	
Al0.38, Cr21, Fe46, Ni32.5, Ti0.38	—	—	—	—	N08800	—	
		—	—	—	N08800	—	

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr			German Proprietary Alloy Designation	Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
	Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German	Aeronautical Material Number (a)				
	German Material Number (a)	Material Number (a)	Number (a)				
Group 2. Cr, Ni, Fe Alloys (Continued)							
Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3, Ni41.8,Ti0.9	—	—	—	—	NiCr21Mo	N08825	Incoloy 825
	2.4858	—	—	—	—	N08825	NC 21 Fe DU
Al1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2	2.4856	—	—	—	—	N08825	Nicral K25
	—	—	—	—	X8NiCrMoTiAl43 16	N08825	ISO No. 11
	—	—	—	—	—	—	Nimonic PE 16
	—	—	—	—	—	—	BS HR 11
Co6,Cr11,Fe/Bal81.4,Mo0.8,Nb/Cb0.4, Ni0.70,V0.4	—	1.4911	—	RNOD Co	X8CrCoNiMo10 6	—	BS HR 207
	—	—	—	—	—	—	NW 11 AC
	—	—	—	—	—	—	FE-PM 38
Co10,Cr13,Fe/Bal76.3,Mo7	—	1.4930	—	—	—	—	Z10 CKD 10
Co19,Cr21,Fe/Bal33.5,Mo3,Nb/Cb1, Ni20,W2.5	—	1.4957	—	—	—	—	Thermon 4911
	—	—	—	—	—	—	Vakamelt

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	German Proprietary Alloy Designation	Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
		Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German			
		German Material Number (a)	Aeronautical Material Number (a)			
Group 3. Cr,Ni,Co,Fe Alloys (Continued)						
Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3, Nb/Cb1,Ni20,W2.5	RGT 32 Vacuutherm 8-11 ATS-105 G	1.4971	1.4974	X12CrCoNi21 20	R30155	N 155 Multimet
					R30155	FE-PA 92-HT
					R30155	prEN2167,2168,
					R30155	2169,2170,2237,
					R30155	2238,2239
					R30155	Z12 CNKDW 20
					R30155	ATG X
					R30155	AMS 5531,5532,
					R30155	5585,5768,5769,
					R30155	5794,5795
Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4, Nb/Cb4,Ni20,W4	RGT 33	1.4977+	—	X40CoCrNi20 20+	R30590	S 590
		1.4978		X50CoCrNi20 20	R30590	AMS 5533,5770
					R30590	Z42 CKNDNbW 20
					R30590	Z42 CKNDW 20
					R30590	ATG XX
Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5, Ni39,Ti2.35,Zr0.005	—	—	—	X8NiCrMoTi38 18	—	Nimonic PE 11
					—	DTD 5037
					—	Z8 NC D38
Cr19.5,Fe4,Ni75,Ti0.4	RGT 0 Vacuutherm 9-11	2.4951	2.4630	NiCr 20 Ti	—	Nimonic 75
					—	Ni-P 91-HT
					—	prEN2293,2294,
					—	2302,2306,2307,
					—	2308
				NC 20 T		
				DTD 703 B		
				ATG R		
Group 4. Nickel Base Alloys						

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	German Proprietary Alloy Designation	Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
		Werkstoff Nr nach DIN 17 007 German Material Number (a)	Luftfahrt- werkstoff-Nr. (LN) German Aeronautical Material Number (a)			
Al1.4,Cr19.5,Ni75,Ti2.4	RGT 3	2.4952	2.4631	NiCr 20 TiAl	N07080	MH.05
						ISO No. 12
						P.E.R. 1
						BS HR 5
						BS HR 203
						BS HR 403
						BS 2HR 504
						Nimonic 80A
						NI-P 95-HT
						prEN2188,2189,
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	RGT 12	2.4969	2.4632	NiCr20Co18Ti	N07080	2190,2191
					N07080	NC 20 TA
					N07080	MH.07
					N07080	DTD 736 B
					N07080	BS 2HR 1
					N07080	BS HR 201
					N07080	BS 2HR 401
					N07080	BS HR 601
					N07080	ATG S3
					N07090	Nimonic 90
					N07090	NI-P 96-HT
					N07090	prEN2295,2296,
					N07090	2297,2298,2299
					N07090	NC 20 KTA
					N07090	DTD 747 B, 5027
					N07090	MH.10
					N07090	MH.45
					N07090	ATG S4

Group 4. Nickel Base Alloys (Continued)

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr				German Proprietary Alloy Designation	Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
	Werkstoff		Luftfahrt- werkstoff-Nr.					
	Nr nach DIN 17 007	German Material Number (a)	(LN) German	Aeronautical Material Number (a)				
Al4.7, Co20, Cr15, Mo5, Ni53, Ti1.2								
Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4								
Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2								

Group 4. Nickel Base Alloys (Continued)

Nominal Composition, weight percent (Essential Elements Only)	German Proprietary Alloy Designation	Werkstoff-Nr			Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
		Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German	Aeronautical Material Number (a)			
		German Material Number (a)	Material Number (a)				
Group 4. Nickel Base Alloys (Continued)							
Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2, Mo4.3,Ni/Bal55,Ti3,Zr	RGT 132	2.4054	2.4654	—	—	ISO No. 16	
					—	BS HR 10	
					—	BS HR 206	
					N07001	Waspaloy	
					N07001	NI-P 101-HT	
					N07001	prEN2193,2194, 2195	
					N07001	ATG W1	
					N07001	NC 20 K 14	
					N07001	Nimonic PK 50	
					N07001	AMS 5544,5586, 5704,5706,5707, 5708,5709,5828	
Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9	RGT 8	2.4975	2.4662	NiFeCr12Mo NiCr15MoTi	—	Nimonic 901	
					—	FE-PA 99-HT	
					—	prEN2176,2177, 2178	
					—	NC14FeDT	
					—	Z8 NC DT42	
					—	AMS 5660,5661	
					—	BS HR 53	
					—	BS HR 404	
					—	MH.16	
					Co1.5,Cr21.2,Fe18.5,Mo9,Ni48,W0.6	RGT 5	2.4972
N06002	NI-P 93-HT						
N06002	prEN2182,2183, 2184,2185						
N06002	NC 22 FeD						
N06002							

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr				German Proprietary Alloy Designation	Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
	Werkstoff		Luftfahrt-					
	Nr nach DIN 17 007	German Material Number (a)	werkstoff-Nr. (LN) German Aeronautical Material Number (a)					
Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13, Ni52.5,Ti0.9					RGT 601			
Al6,Cr12,Mo4.5,Nb/Cb2,Ni72,Ti0.9								
Al0.5,Co20,Cr20,Mo5.7,Ni/Bal52.3,Ti2								
Al6,Co15,Cr10,Mo3,Ni/Bal70,Ti5,V1								

Group 4. Nickel Base Alloys (Continued)

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr				German Proprietary Alloy Designation	Bezeichnung nach DIN 17 006		Related UNS Number	Other International Alloy Designations
	Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German	German Standard Specification (b) (DIN 17 006)	German Material Number (a)					
						German Material Number (a)	Aeronautical Material Number (a)		
Group 4. Nickel Base Alloys (Continued)									
Al5.5,Co10,Cr9,Mo2.5,Ni/Bal61.5, Ti1.5,W10	—	—	2.4676	—	—	—	—	—	—
Al1.4,Cr20,Fe1,Mo4.5,Ni/Bal70.7,Ti2.4	RGT 4	2.4976	—	—	NiCr20Mo	—	—	—	NC 20 DTA
Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	—	2.4600	—	—	NiMo30	N10001 N10001 N10001 N10001	Hastelloy B ND 27 Fe V ARC 1628 ISO No. 23		
Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4	—	2.4602	—	—	—	N10002 N10002 N10002	Hastelloy C NC 17 DWY ARC 6015		
Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1	RGT 15	2.4973	—	—	NiCr19CoMo	N07041 N07041 N07041 N07041	René 41 NC 20 KDTA AMS 5545,5712, 5713,5800		
Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal 47.2, Ti2.9	RGT 14	2.4983	—	—	NiCr18Co	N07500 N07500 N07500 N07500	Udimet 500 NI-P 94-HT ATG W2 AMS 5751,5763 NCK 18 DAT		
Al1.5,Co18,Cr20,Fe2.5,Mo4.5,Ni/Bal51.5, Ti2.5	RGT 13	2.4982	—	—	NiCr20CoMo	—	NC 20 KDTA		
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5	RGT 6	—	—	—	NC15FeTNbA	N07750 N07750 N07750 N07750 N07750 N07750	Inconel X-750 AMS 5542,5582, 5598,5667,5668, 5669,5671,5698, 5699,5778 NC 15 T Nb A		

TABLE 9. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	Werkstoff-Nr		German Proprietary Alloy Designation	Bezeichnung nach DIN 17 006 German Standard Specification (b) (DIN 17 006)	Related UNS Number	Other International Alloy Designations
	Werkstoff Nr nach DIN 17 007	Luftfahrt- werkstoff-Nr. (LN) German				
	German Material Number (a)	Aeronautical Material Number (a)				
Group 4. Nickel Base Alloys (Continued)						
Cr15.5,Fe6,Mo3,Nb/Cb/Ta3,Ni/Bal69.5, W3	RGT 501	—	—	—	N07750	ATG F
Al2,B,Co14,Cr18.5,Fe0.25,Mo7, Ni/Bal55.9,Ti2	—	—	—	NiCr18Co14MoTiAl	N07750	NC 15 FeT(Nb)
					N07750	MH.04
					—	—
Group 5. Cobalt Base Alloys						
Co/Bal,55.5,Cr26,Ni11,W7.5	—	—	2.4682	—	—	CO-C 91-HT
					—	prEN2161
Co/Bal52.9,Cr20,Mn1.5,Ni10,W15	RGT 36 Vaccutherm 8-13	2.4967	2.4964	CoCr20W15Ni	R30605	L-605
					R30605	prEN2162,2163,
					R30605	2164,2165,2166
					R30605	AMS 5537,5759,
					R30605	5796,5797
					R30605	CO-P 92-HT
					R30605	KC 20 WN
					R30605	ATGH
					R30605	HS 25
Co/Bal42,Cr20,Fe4,Mn1.2,Mo4, Nb/Cb4,Ni20,W4	RGT 35 Vaccutherm 8-13h ATS H3-G	2.4989	—	CoCr20Ni20W	R30816	S-816
					R30816	AMS 5534,5765
					R30816	KCN 20 DNbW

TABLE 9. (Continued)

Footnotes

(a) EXPLANATION OF THE GERMAN (WERKSTOFF) NUMBERS

In Germany the material (Werkstoff) numbers given to an alloy consists of a group of five figures, e.g., 1.4974 or 2.4631. If the first figure is '1', it indicates that the material is a steel, but if the first figure is '2' it indicates that the material is a non-ferrous alloy, (but not a light alloy for which the first figure is '3'). The group of four figures separated from the first figure by a dot is the designation of each particular steel or non-ferrous alloy. For materials for aeronautical use, LN, or WDL, the last figure of the five figure designation is always '4', except in the cycles of number 1.4600 to 1.4699 and 2.4600 to 2.4699, where each number is reserved for aeronautical use LN (Luftfahrt Norman). To distinguish the two material (Werkstoff) numbers we have labeled the German Material (Werkstoff) numbers DIN and the German Aeronautical material (Werkstoff) numbers LN. Some alloys have the material number and some have the aeronautical material number and some alloys have both numbers.

The heat treatment and various conditions of an alloy are denoted by a number following the specification number and separated from it by a second dot, e.g., 1.4974.4 and 1.4974.9 (see below under the condition heading).

This numerical identification system is approved by 'Deutscher Normenausschuss' and is known as the DNA-System.

ALLOY MATERIAL (WERKSTOFF) SYSTEM

Listed below are data on two heat resisting steels (Superalloys) and five non-ferrous heat resisting alloys Superalloys produced in Germany. These seven alloys are those of iron, nickel and cobalt based alloys, most widely used for heated and stressed applications in aircraft and their power plants and all of them are similar to either U.K. or U.S. alloys.

Examples of some typical material (Werkstoff) numbers of superalloys covered and their U.K. or U.S. equivalents together with the conditions and forms in which they are produced are listed below:

1.4944 LN	—	Precipitation Hardenable Nickel-Chromium-Titanium-Steel	(U.S. A-286)
1.4944.4 LN	—	Sheet; Strip; Plate; Bars; Forgings	
1.4944.9 LN	—	Sheet; Strip; Plate; Bars; Forgings	
1.4974 LN	—	Cobalt-Chromium-Nickel-Steel	(U.S. N-155)
1.4974.3 LN	—	Precision Castings	
1.4974.4 LN	—	Bars; Forgings	
1.4974.9 LN	—	Sheet; Strip; Plate; Bars; Forgings	
2.4630 LN	—	Nickel Forging Alloy Ni Cr 20 Ti	(U.K. Nimonic 75)
2.4630.1 LN	—	Sheet; Strip; Bars; Forgings; Seamless Tubing	
2.4631 LN	—	Sheet; Strip; Bars; Forgings; Seamless Tubing	(U.K. Nimonic 80A)
2.4631 LN	—	Nickel Forging Alloy Ni Cr 20 Ti Al	
2.4631.1 LN	—	Sheet; Strip; Bars; Forgings	
2.4631.7 LN	—	Sheet; Strip; Bars; Forgings	
2.4632 LN	—	Nickel Forging Alloy Ni Cr 20 Co 18 Ti	(U.K. Nimonic 90)
2.4632.1 LN	—	Sheet; Strip; Bars; Forgings	
2.4632.7 LN	—	Sheet; Strip; Bars; Forgings	
2.4634 LN	—	Nickel Forging Alloy Ni Co 20 Cr 15 Mo Al Ti	(U.K. Nimonic 105)
2.4634.1 LN	—	Sheet; Strip	
2.4634.4 LN	—		
2.4634.7 LN	—	Sheet; Strip; Bars; Forgings	
2.4965 LN	—	Chromium-Tungsten etc.	(U.K. L605)

TABLE 9. (Continued)

Footnotes

CONDITION NOMENCLATURE OF MATERIAL (WERKSTOFF) NUMBERS

The number denoting the heat treatment and condition follows the alloy specification number and is separated from it by a dot, e.g., 1.4974.4. The numbers designating the condition have the following meanings:

Condition No.	Steels	Non-Ferrous Alloys
0	As manufactured	As manufactured
1	Normalized	Soft
2	Soft annealed	Cold worked (1/8 – 3/4 hard)
3	Heat treated to good machinability	Hard
4	Quenched and tempered	Cold age-hardened
5	Quenched and tempered	Cold age-hardened and straightened
6	Quenched and tempered	Cold age-hardened and work hardened
7	Cold worked	Warm age-hardened
8	Cold worked	Hard drawn
9	Special treatment	Special treatment

Because the same steel is frequently used in several conditions, three different numbers are provided for the condition 'quenched and tempered'. The number '6' indicates the condition with the highest strength, number '5' medium strength and number '4' the lowest strength for the same steel. Similarly, two numbers are provided for the 'cold worked' condition. Number '7' indicates medium grade and number '8' high grade cold working

(b) EXPLANATION OF DIN DESIGNATION (BEGEICHNUNG) ABBREVIATIONS

In the German Specifications (designations) DIN 17006) the preceding number indicates the alloys average carbon content percentage in some cases, however, this is omitted, for example X18 = 0.18% Carbon, or X 8 = 0.08% Carbon. A preceding letter g means a cast alloy (guss).

The remainder of the alloy designation shows the important chemical element (symbols) contained in order of the decreasing alloy percentage content. The numbers following the chemical elements represent the average percentage of the alloy elements also in decreasing order of percentage contents e.g.,

Designation	Nominal Composition
X 18 CrMoVNb 12 1	= 0.18 C, 12 C, 1 Mo + V and Nb
X 8 CrCoNiMo 10 6	= 0.08 C, 10 Cr, 66 + Ni and Mo
NiCr20Ti	= Balance Ni, 20 Cr + Ti
X 5 NiCrTi 26	= 0.05 C, Balance Ni, 26 Cr + Ti
NiCo20Cr19MoAlTi	= Balance Ni, 20 Co, 15 Cr + Mo, Al, and Ti
CoCr20W15	= Balance Co, 20 Cr, 15 W
NiCr22FeMo	= Balance Ni, 22 Cr + Fe and Mo
NiFeCr12Mo	= Balance Fe, 43.5 Ni, 12 Cr + Mo
G-X15CrNiCo21 20 20	= Cast alloy 0.15 C, Cr 21, Ni 20, Co 20

TABLE 10. TYPICAL SUPERALLOYS SPECIFIED (TEMPORARILY) BY THE INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

Nominal Composition, weight percent (Essential Elements Only)	ISO Temporary Alloy Designation Number	Related UNS Number	Related International Common Name(s) or Designation(s)
Group 2. Cr,Ni,Fe Alloys			
Al1.35,Cr23,Fe14.1,Ni60.5	5	N06601 N06601	Inconel Alloy 601 Nical Z A
Al0.38,Cr21,Fe46,Ni32.5,Ti0.38, C0.05	8	N08800 N08800 N08800 N08800 N08800	Incoloy Alloy 800 Nical C Pyrad 33 AT 30 NCF 2
Al0.38,Cr21,Fe46,Ni32.5,Ti0.38 C0.08	9	N08810 N08810 N08810 N08810	Incoloy Alloy 800H Nical C2 Chromax NCF 2H
Cr20.5,Fe44.5,Ni32,Ti1.3	10	N08801 N08801	Incoloy Alloy 801 Nical CT
Al0.15,Cr21.5,Cu2.2,Fe30,Mo3, Ni41.8,Ti0.9	11	N08825 N08825	Incoloy Alloy 825 Nical K25
Cr20,Cu3.5,Fe/Bal39,Mo2.5,Ni35.0	21	— —	20 Cb 3 Nicomaz 20
Group 4. Nickel Base Alloys			
Cr19.5,Fe4,Ni75,Ti0.4	12	— — —	Nimonic 75 ATGR P.E.R.1
Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2	16	— — —	Nimonic 263 ATGWO P.E.R. 263
Co0.5,Cr0.5,Fe1.0,Mo28,Ni/Bal70	18	N10665 N10665	Hastelloy B-2 ADNIC 265D
Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3, W0.6	19	N06002 N06002 N06002	Hastelloy X ATGE Pyrad 49D
Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	23	N10001 N10001	Hastelloy B Ni Mo 30
Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4, V,0.35,W3.75	24	N010276 N010276	Hastelloy C-276 Ni Mo16 Cr15 W

TABLE 10. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	ISO Temporary Alloy Designation Number	Related UNS Number	Related International Common Name(s) or Designation(s)
Group 4. Nickel Base Alloys (Continued)			
Co1.0,Cr16,Fe1.5,Mo15.5,Ni/Bal65.7, Ti0.35	25	N06455 N06455	Hastelloy C-4 Ni Mo16 Cr16 Ti
Co1.2,Cr22.2,Fe19.5,Mo6.5,Nb/Cb2.0, Ni/Bal48.1,W0.5	26	N06007	Hastelloy G
Cr15.5,Fe8,Ni72 min	27	—	LC-Ni Cr15 Fe

TABLE 11. TYPICAL SUPERALLOY OFFERED IN ITALY

Nominal Composition, weight percent (Essential Elements Only)	Italian Alloy Designation	Related UNS Number	Related International Common Name(s) or Designation(s)
<u>Group 2. Cr,Ni,Fe Alloys</u>			
Al0.38,Cr21,Fe/Bal46,Ni32.5,Ti0.38	AT 30	N08810	Incoloy Alloy 800
		N08810	ISO No. 8
Al0.38,Cr21,Fe/Bal46,Ni32.5,Ti0.38	Chromax	N08810	Incoloy Alloy 800H
		N08810	ISO No. 9

TABLE 12. TYPICAL SUPERALLOYS OFFERED IN JAPAN

Nominal Composition, weight percent (Essential Elements Only)	Japanese Alloy Designation	Related UNS Number	Related International Common Name(s) or Designation(s)
Group 2. Cr,Ni,Fe Alloys			
Al0.38,Cr21,Fe/Bal46,Ni32.5, Ti0.38,C0.05	NCF 2	N08800	Incoloy 800
		N08800	ISO No. 8
Al0.38,Cr21,Fe/Bal46,Ni32.5, Ti0.38,C0.08	NCF 2H	N08810	Incoloy 800H
		N08810	ISO No. 9

TABLE 13. TYPICAL SUPERALLOYS SPECIFIED BY SWEDEN

Nominal Composition, weight percent	Royal Swedish Air Board Specifications	Related UNS Number	Other International Common Name(s) Designation(s)
Cr19.5,Fe4,Ni75,Ti0.4	MH.05	—	Nimonic 75
		—	RGT ₀
		—	BS HR 5
		—	BS HR 203
		—	BS HR 403
		—	BS 2HR 504
		—	Ni-P 91-HT
		—	NC 20 T
		—	2-4630 LN
		—	NiCr 20 Ti
		—	ATG R
Al0.63,Cr21,Ni75,Ti2.45	MH.07	N07080	Nimonic 80A
		N07080	RGT 3
		N07080	BS 2HR 1
		N07080	BS HR 201
		N07080	BS 2HR 401
		N07080	BS HR 601
		N07080	Ni-P 95-HT
		N07080	2.4631 LN
		N07080	NC 20 TA
		N07080	NiCr 20 TiAl
		N07080	RGT 3
		N07080	ATG S3
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	MH.10 MH.45	N07090	Nimonic 90
		N07090	RGT 12
		N07090	BS 2HR 2
		N07090	BS 2HR 202
		N07090	BS HR 402
		N07090	BS 2HR 502
		N07090	BS 2HR 501
		N07090	BS 2HR 503
		N07090	Ni-P 96-HT
		N07090	2.4632 LN
		N07090	NC 20 KTA _t
		N07090	NiCr 20 CO 18 Ti
		N07090	RGT 12
		N07090	ATG S4
Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	MH.14	—	Nimonic 105
		—	BS HR 3
		—	Ni-P 61-HT
		—	2.4634 LN
		—	NKCD 20 AT _v
		—	NiCo Cr 15 MoAlTi
		—	RGT 16
Al0.25,Cr13.5,Fe34,Mo6.2,Ni42.7, Ti2.5	MH.16	N09901	Incoloy 901
		N09901	Nimonic 901
		N09901	BS HR 53
		N09901	BS HR 404

TABLE 13. (Continued)

Nominal Composition	Royal Swedish Air Board Specifications	Related UNS Number	Other International Common Name(s) Designation(s)
Co1.5,Cr21.5,Fe18.5,Mo9,Ni48, W0.6	MH.03	N09901	Fe-PA 99-HT
		N09901	AMS 5660
		N09901	AMS 5661
		N09901	Z8 NC DT42
		N09901	2.4662 LN
		N09901	NiCr 15 MoTi
		N09901	RGT 8
		—	Nimonic PE 13
Al0.5,Cr19,Fe18.5,Mo3.05, Nb/Cb5.13,Ni52.5,Ti0.9	MH.06	—	BS HR 6
		—	BS HR 204
		—	Ni-P 93-HT
		—	NC 22 FeD
		—	2-4665 LN
		—	NiCr 22 Fe 18 Mo
		N07718	Inconel 718
		N07718	Ni-P 100-HT
Al0.7,Cr15.5,Fe7,Nb/Cb0.95, Ni73,Ti2.5	MH.04	N07718	NC 19 Fe Nb
		N07718	2-4668 LN
		N07718	NiCr 19 NbMo
		N07718	AMS 5589,
		N07718	AMS 5590,
		N07718	AMS 5596,
		N07718	AMS 5597,
		N07718	AMS 5662,
Al6.1,B,Cr12.5,Fe2.5,Mo4.2, Nb/Cb2,Ni/Bal70.9,Ti0.8,Zr0.10	MH.31	N07718	AMS 5663,
		N07718	AMS 5664,
		N07718	AMS 5832
		N07718	RGT 601
		N07718	HTG C1
		N07750	Inconel X-750
		N07750	NC 15 FeT(Nb)
		N07750	5542,5582,
		N07750	5598,5667,
		N07750	5668,5669,
		N07750	5671,5698,
		N07750	5699, and 5778
		N07750	RGT 6
		N07750	ATG F
		N07713	Nimocast 713
		N07713	Alloy 7BC
		N07713	BS HC 203
		N07713	Ni-C 98-HT
		N07713	NC 13 AD
		N07713	5391
		N07713	2.4670 LN
		N07713	ATG S9

TABLE 14. TYPICAL SUPERALLOYS OFFERED IN THE UNION OF SOVIET SOCIALIST REPUBLICS
(Arranged Primarily by Soviet Factory Designation Numbers)

Nominal Composition, weight percent (Essential Elements Only)	GOST Alloy Designation		Soviet Factory or Common Alloy Name(s) or Designation(s)		Related International Common Name(s) or Designation(s)
	Latin (a)		Cyrillic		
	Latin (a)	Cyrillic	Latin (a)	Cyrillic	
Wrought Nickel-Base Alloys					
Al0.2, Co0.02, Cr21, Fe/Bal 3.8, Ni75	KhN73T	ХН73Т	EI421	ЭИ421	Nimonic 75
Al0.2, Cr21, Fe/Bal 3.4, Ni75, Ti0.4	Kh20N80T	X20H80T	EI421	ЭИ421	Nimonic 80
Al0.7, Cr21, Fe2.5, Ni/Bal 73.4, Ti2.4	KhN80T	ХН80Т	EI422	ЭИ422	Nimonic 80
Al0.2, Cr21, Fe/Bal 3.4, Ni75, Ti0.4	KhN75T	ХН75Т	EI435	ЭИ435	Nimonic 75
"	KhN78T	ХН78Т	"	"	"
"	KhN80	ХН80	"	"	"
"	Kh20N78T	X20H78T	"	"	"
"	Kh20N80T	X20H80T	"	"	"
"	OKh21N78T	OX21H78T	"	"	"
Al0.2, Cr21, Fe/Bal 3.8, Ni75	KhN78T	ХН78Т	EI435	ЭИ435	—
Al0.75, Cr21, Ni/Bal 77, Ti2.5	KhN80T	ХН80Т	EI437	ЭИ437	Nimonic 80
"	Kh20N80T3B	X20H80T3B	"	"	"
Al0.8, Ce, Cr20.5, Fe4, Ni/Bal 72.3, Ti2.4	Kh20M30TYu	X20M30TЮ	EI437	ЭИ437	Nimonic 80
Al0.75, Cr20.5, Ni/Bal 77, Ti2.5	KhN77TYu	ХН77ТЮ	EI437A	ЭИ437А	Nimonic 80A
"	Kh20N77TYuR	X20H77TЮP	"	"	"
"	Kh20N77T3Yu	X20H77T3Ю	"	"	"
"	Kh20N80T3A	X20H80T3A	"	"	"
Al0.75, B, Cr20.5, Ni/Bal 76, Ti2.5	KhN77TYuR	ХН77ТЮP	EI437B	ЭИ437Б	—
"	Kh20N67M3T3YUR	X20H67M3T3ЮP	"	"	—
"	Kh20N67M5V3TYuR	X20H67M5B3TЮP	"	"	—
Al0.8, B, Cr21.5, Ni/Bal 75, Ti2.7	—	—	EI437BU	ЭИ437БУ	—
Al0.7, B, Ce, Cr18.5, Fe4, Mo4.5, Ni/Bal 67, Ti2.5, W2.8	—	—	EI437R	ЭИ437Р	—
Al0.15, Cr29.5, Ni/Bal 70.4	KhN70	ХН70	EI442	ЭИ442	—
Al0.7, Cr20, Mo4, Ni/Bal 72.8, Ti2.5	—	—	EI444	ЭИ444	—
Al1.25, Cr18.5, Fe4, Mo5, Ni/Bal 68.8, Ti2.5	KhN67MTYu	ХН67МТЮ	EI445	ЭИ445	—
Al0.7, B, Ce0.01, Cr18.5, Fe4, Mo4.5, Ni/Bal 68, W4.5	KhN67VMTYu	ХН67ВМТЮ	EI445R	ЭИ445Р	—
Al3.3, Ce, Cr16.2, Fe19, Ni/Bal 61.5	—	—	EI559	ЭИ559	—
Al3.2, Cr16.5, Fe/Bal 22.8, Ni57.5	KhN60Yu3	ХН60Ю3	EI559A	ЭИ559А	—
Al3.2, Cr16.5, Fe/Bal 23.3, Ni57	Kh16N60Yu3	X16H60Ю3	EI559A	ЭИ559А	—

TABLE 14. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	GOST Alloy Designation		Soviet Factory or Common Alloy Name(s) or Designation(s)		Related International Common Name(s) or Designation(s)
	Latin (a)	Cyrillic	Latin (a)	Cyrillic	
Al1.4, B, Ce, Cr17.5, Nb0.9, Ni/Bal 66, Mo4.9, W4.5	KhN70VMTYuB	XH70BMTЮБ	EI598	ЭИ598	—
Al1.4, Ce, Cr17.5, Fe5, Mo5, Ni/Bal 66, Ti2.3, W2.7	—	—	EI598	ЭИ598	—
Al0.55, Cr20.5, Fe3, Mo2, Nb1.1, Ni/Bal 73	KhN75MBTYu	XH75MBТЮ	EI602	ЭИ602	—
Al0.7, Cr16, Fe2, Ni/Bal 79.4, Ti1.9	KhN80TBYu	XH80TБЮ	EI607, EI607A	ЭИ607, ЭИ607A	Inconel X-550
Al2, B, Cr14.5, Fe5, Mo3, Ni/Bal 67.3, Ti2, W6	KhN70MTYu	XH70MTЮ	EI617	ЭИ617	—
Al2.6, Ce, Cr14.5, Fe5, Mo3.2, Ni/Bal 66.8, Ti1.9, W6	—	—	EI617AB	ЭИ617AB	—
Al0.5, B, Cr18, Fe1, Ni/Bal 78, Ti2.5	Kh20N77T2YuR	X20H77T2ЮР	EI650	ЭИ650	Nimonic 80
"	Kh20N77T3YuR	X20H77T3ЮР	"	"	"
"	Kh20N80T3	X20H80T3	"	"	"
"	Kh20N80T3Yu	X20H80T3Ю	"	"	"
Al3.5, Ce, Cr28.5, Fe1, Ni/Bal 70	KhN70Yu	XH70Ю	EI652	ЭИ652	—
"	OKh27N70Yu3	OX27H70Ю3	"	"	—
Al4.3, Ce, Mo10.5, Ni/Bal 80.2, W5	—	—	EI661	ЭИ661	—
Al0.4, Cr17.5, Ni/Bal 75, Ti2	—	—	EI666A	ЭИ666A	—
Al1.4, B, Cr14.5, Fe0.8, Mo4.2, Ni/Bal 72.6, Ti1.3, W5.2	—	—	EI675	ЭИ675	—
Al1.2, Cr14.5, Mo2.1, Ni/Bal 80, Ti2.3	—	—	EI698	ЭИ698	—
Al1.8, Cr14.6, Fe0.5, Mo4.17, Ni/Bal 72, Ti1.8, W5	KhN70VMTYu	XH70BMTЮ	EI765	ЭИ765	—
"	Kh15N70V5M4Yu2T	X15H70B5M4Ю2Т	"	"	"
Al4, Cr10, Mo7.5, Ni/Bal 70.3, Ti3.3, W4.9	—	—	EI766, EI766A	ЭИ766, ЭИ766A	—
Al2.6, Ce, Cr14.5, Fe5, Mo3.2, Ni/Bal 66.8, Ti1.9, W6	—	—	EI826	ЭИ826	—
Al4, B, Cr10, Mo7.5, Ni/Bal 68.1, Ti4.4, W5	—	—	EI827	ЭИ827	—
Al4, B, Cr10, Mo7.5, Ni/Bal 69.3, Ti4.25, W5	—	—	EI827	ЭИ827	—
Al4.3, B, Cr10, Mo9, Ni/Bal 71.7, W5	—	—	EI828	ЭИ828	—
Al6.1, Co8.5, Mo3.5, Ni/Bal 75.8, Ti2.6, W3.5	L114	Л114	EI857	ЭИ857	—
Al4.5, Co5, Cr9.5, Fe4, Mo10, Ni/Bal 67	—	—	EI867	ЭИ867	—
Al0.5, Cr25, Fe5, Ni/Bal 54.5, Ti0.5, W14.5	KhN60V	XH60B	EI868	ЭИ868	—
"	Kh15N60V15	X15H60B15	"	"	—
"	Kh20N60V20	X20H60B20	"	"	—
"	Kh25N60V15	X25H60B15	"	"	—
"	VZh90	ВЖ90	"	"	—
"	VZh98	ВЖ98	"	"	—
Al1.2, B, Cr15.5, Ni/Bal 81.6, Ti1.7, Zr	—	—	EI869	ЭИ869	—
Al0.9, Cr16.7, Ni/Bal 80.6, Ti1.8	—	—	EI873	ЭИ873	—

TABLE 14. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	GOST Alloy Designation		Soviet Factory or Common Alloy Name(s) or Designation(s)		Related International Common Name(s) or Designation(s)
	Latin (a)	Cyrillic	Latin (a)	Cyrillic	
Al1.4, B, Ce, Cr16, Mo4.2, Ni/Bal 32, Ti1.4, W9	Kh15N65V10M5T	X15H65B10M5T	EI893	ЭИ893	—
Al3.1, Cr22.4, Fe9.7, Ni/Bal 57.8, Ti1.1, W5.7	—	—	EI894	ЭИ894	—
Composition Unknown	—	—	EI926	ЭИ926	—
Al4, B, Co1.4, Cr10.5, Mo5, Ni/Bal 59, Ti1.7, W6, Zr	KhN55VMTFKYuR	XH55BMTΦKYOP	EI929	ЭИ929	—
"	VZh 36-300	BЖ 36-300	"	"	—
Al4.2, Co15, Cr10.5, Fe5, Mo5, Ni/Bal 51.4, Ti2.4, V0.5, W6	—	—	EP57	ЭП57	—
Al3, Co7.5, Cr22.5, Mo4.2, Ni/Bal 54.5, Ti1.25, W7	—	—	EP99	ЭП99	—
Al6, B, Co12, Cr10, Mo6, Ni/Bal 59, W7	KhN56VMKYu	XH56BMKYU	EP109	ЭП109	—
Al2.3, B, Cr20.5, Mo5, Ni/Bal 60.9, Ti3, W10	VZh101	BЖ101	EP199	ЭП199	—
Al1.2, B, Cr18.5, Mo4.5, Ni/Bal 68.8, Ti2.5, W4.5	KhN67VMTYu	XH67BMTЮ	EP202	ЭП202	—
Al4.2, Co15, Cr10, Mo5.6, Ni/Bal 57, Ti2.4, V0.3, W5.5	KhN55MBVYu	XH55M5BЮ	EP220	ЭП220	—
Al5, Cr10, Mo9, Ni/Bal 66, Ti5, W5	—	—	EP404	ЭП404	—
Al4.7, Cr10, Mo5.8, Ni/Bal 74.5, W5	KhN55M6VYu	XH55M6BЮ	EP454	ЭП454	—
Al1.25, B, Ce, Cr18.5, Fe4, Mo10, Ni/Bal 59.4, Ti2.4, W4.5	KhN60VMTYu	XH60BMTЮ	EP487	ЭП487	—
Al2.8, B, Ce, Cr17, Mo3.3, Ni/Bal 68.6, Ti2.5, W5.8	—	—	EP539	ЭП539	—
Cr15, Fe1.5, Mo16, Ni/Bal 63.8, W3.7	Kh15N65M16	X15H65M16	EP567	ЭП567	—
"	Kh15N65M16V	X15H65M16B	"	"	—
"	OKh15N65M16V	OX15H65M16B	"	"	—
Al1.25, B, Ce, Cr18, Fe9, Mo9, Ni/Bal 56.2, Ti2.5, W2	KhN57MTVYu	XH57MTBЮ	EP590	ЭП590	—
Al1.25, B, Ce, Cr18, Fe9, Mo5.1, Ni/Bal 59, Ti2.6, W5.1	—	—	EP677	ЭП677	—
Al1.2, Cr16, Fe8, Mo8, Nb5.5, Ni/Bal 64.8, W4.5	—	—	EP691	ЭП691	—
Al3.3, Cr15.5, Fe5.8, Ni73.9, Ti1.4	Kh15N74TYu3	X15H74TЮ3	—	—	—
Al0.53, Cr19.5, Fe21.3, Ni55.7, Ti1.44, W14.5	Kh20N60TYu	X20H60TЮ	—	—	—
Al0.75, Cr22, Fe2.5, Ni/Bal 72.4, Ti2.4	Kh20N80T3B	X20H80T3Б	—	—	Nimonic 80
Al3.1, Cr22, Fe1, Ni/Bal 73.9	Kh27N70YU3	X27H70Ю3	—	—	—
Al1, Cr15, Fe8, Mo7.5, Ni/Bal 63.7, W4.8	KhN50MBVYu	XH50M5BЮ	—	—	—
Al1.1, Cr14.5, Fe6.7, Mo8, Ni/Bal 64.2, W5.5	KhN60MBVYu	XH60M5BЮ	—	—	—
Al0.5, Cr25, Fe4, Ni/Bal 56, W14.5	KhN60V	XH60B	—	—	—
Al1.2, Cr20, Fe0.7, Mo5.1, Ni/Bal 70, Ti3	KhN72MTYu	XH72MTЮ	—	—	—
Al0.6, Cr19.8, Ni/Bal 78.4, Ti1.17	KhN80TYu	XH80TЮ	—	—	—

TABLE 14. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	GOST Alloy Designation		Soviet Factory or Common Alloy Name(s) or Designation(s)		Related International Common Name(s) or Designation(s)
	Latin (a)	Cyrillic	Latin (a)	Cyrillic	
Al0.67, Cr19.7, Ni/Bal 76.4, Ti2.23	KhN80T2Yu	XH80T2Ю	—	—	—
Al0.78, Cr14, Fe7.2, Ni/Bal 78	N2	H2	—	—	Inconel-X
Al3, B, Cr15, Ni/Bal 71, V1, W10	VZh17	BЖ17	—	—	—
Al1.8, Cr14, Fe7, Ni/Bal 65.8, Si2, Ti1.5, W1.9	V56	B56	—	—	Bearing Alloy
Al2.3, Co4.8, Cr19, Mo2.5, Ni/Bal 65, Ti2.9, W3.5	ZhS	ЖС	—	—	—
Al4.3, B, Co9.8, Cr10.8, Mo4.9, Ni/Bal 68.7, V1.5	TSZh12	ЦЖ12	—	—	—
Al1.9, Cr19.5, Fe1.2, Mo3.2, Ni/Bal 69, W5.2	TSZh16	ЦЖ16	—	—	—
Al0.5, Cr19.5, Fe21.3, Ni/Bal 57, Ti1.4	12N	12Н	—	—	—
Al1, Cr20.6, Ni/Bal 77, Ti1.5	20-75BTYu	20-75БТЮ	—	—	—
Cast Nickel-Base Alloys					
Al0.75, Cr16, Fe3, Ni/Bal 79, Ti1.6	—	—	EI607AL	ЭИ607АЛ	—
Al2, B, Cr15, Ni/Bal 75.5, Ti2, W5.5	ZhS3	ЖС3	EI618	ЭИ618	—
Al1.75, Cr14.5, Fe3, Mo19.5, Ni/Bal 55, Ti1.1, W5	—	—	EI765L	ЭИ765Л	—
Al6, Cr11, Ni/Bal 80, Ti2.6	L114	Л114	EI857	ЭИ857	—
Al1.56, B, Ce, Cr17.2, Mo3.6, Ni/Bal 67, Ti1.5, W9	—	—	EI893L	ЭИ893Л	—
Al5, Cr15.5, Fe5, Ni/Bal 54, Ti1.7, W8.5	ANV-300	АНВ-300	—	—	—
Al3.5, Ce, Cr11, Fe0.5, Mo4, Ni/Bal 64, Ti5, V1, W8	VZh36-L1	ВЖ36-Л1	—	—	—
Al3.7, B, Cr20.5, Fe1.5, Ni/Bal 71, Ti3	VZh36-L2	ВЖ36-Л2	—	—	—
Unknown	VZh36-L3	ВЖ36-Л3	—	—	—
Al3, B, Cr11.5, Fe10, Mo5.2, Ni/Bal 69, Ti2.1	VZhL-8	ВЖЛ-8	—	—	—
Al5, B, Cr12.5, Fe2, Mo4.8, Ni/Bal 66, Ti2.5, W7	ZhS6	ЖС6	—	—	—
Al5.5, B, Co4.5, Cr11.5, Fe2, Mo4, Ni/Bal 65, Ti2.8, W5	ZhS6-K	ЖС6-К	—	—	—
Al4.6, Ce, Co6.5, Cr10.5, Fe2, Mo5.5, Ni/Bal 64, Ti3, W4	ZhS6-KP	ЖС6-КП	—	—	—
B, Cr20, Fe25, Ni46, W8	VL7-45U	ВЛ7-45У	—	—	—
Al5.5, Co15, Cr9.5, Mo3, Ni/Bal 67	VZhL-12	ВЖЛ-12	—	—	IN 100
Al1.6, Cr19, Mo5.4, Ni/Bal 71.3, Ti2.7	VZhL-14	ВЖЛ-14	—	—	—
Al2.7, B, Cr16.5, Fe7, Mo3.3, Ni/Bal 68.3, W2.2	VZhL-1	ВЖЛ-1	—	—	—
Al3.5, B, Ce, Cr19, Fe1.5, Ni/Bal 73.7, Ti2.3	VZh36L	ВЖ36Л	—	—	—

TABLE 14. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	GOST Alloy Designation		Soviet Factory or Common Alloy		Related International Common Name(s) or Designation(s)
	Latin(a)	Cyrillic	Name(s) or Designation(s)		
			Latin (a)	Cyrillic	
Cast Cobalt-Base Alloys					
Co/Bal 65, Cr26.5, Mo5, Ni3.3	LK4	ЛК4	—	—	—
B, Co/Bal 65, Cr26.5, Mo5, Ni3	LK4Ya	ЛК4Я	—	—	Haynes 21
B, Co/Bal 70, Cr26.5, Nb1.75, Ni2,	LK66Ya	ЛК66Я	—	—	—
Co52, Cr20, Ni10, W15	KhEYNES-25 L-60	ХЭЫНЭС-25 Л-60	—	—	Haynes 25
Co54, Cr25, Ni10, W7.5	KhEYNES-31 X-40	ХЭЫНЭС-31 X-40	—	—	Haynes 31
Co39, Cr20, Fe/Bal 0.5, Ni30, Ti4, W6.5	SPLAV-I-1570	СПЛАВ-И-1570	—	—	—
B, Co/Bal 63, Cr22.5, Fe1, Nb2, Ni2, W9.5	4K66Ya	4К66Я	—	—	—
Co45, Cr26, Ni10, W15	KHEYNES-NE 1049	ХЭЫНЭС-НЭ 1049	—	—	Haynes-NE 1049
Wrought Nickel-Iron Base Alloys					
B, Cr20, Fe25, Ni46, W	VL7-45U	ВЛ7-45У	—	—	—

(a) The transliteration system is the one proposed by the United States Board on Geographic Names, details are shown in Appendix A6. It has been used extensively by governmental, industrial and educational organizations in the U.S.

TABLE 15. TYPICAL SUPERALLOYS OFFERED IN THE UNITED KINGDOM

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 1. Ferritic (Martensitic) Stainless Steels			
B,Cr11.5,Fe/Bal56.2,Mo0.6,Nb/Cb0.2, N0.07,V0.2	Hecla H. G. T. 4	—	—
Cr12,Fe/Bal82.7,Mo1,Ni1.25,V1	Jethete M. 160	—	—
Al4.5,Cr20,Fe74.4,Ti0.5,Y ₂ O ₃ 0.5	Incoloy MA 956	—	—
Group 2. Cr,Ni,Fe Alloys			
Cr10.5,Fe/Bal88.1,Mo0.75,Nb/Cb0.45, V0.15	448	—	—
Cr14,Cu2.5,Fe/Bal71.1,Mo2,Ni9.5,Ti0.7	467	—	—
Cr22,Fe/Bal62,Ni13,W3	Era H. R. 6W (C) (Cast)	—	—
Cr18,Fe/Bal70.7,Ni18,Ti0.6	F.D.P.	—	—
Cr17.5,Fe/Bal68.1,Nb/Cb1.2,Ni11	F.C.B. (T)	—	—
Cr14,Fe/Bal66.8,Si1.5,Ni14,W6	F.V.S.	—	—
B,Cr16,Fe/Bal66.4,Ni13,Ti0.5,W3	G. 4	—	—
Cr16.5,Fe/Bal69.2,Ni11.5,Ti0.4,W1	G. 9	—	—
Cr13,Fe/Bal67.5,Nb/Cb1,Ni13.5,W2.5	G. 21	—	—
Cr11.5,Fe/Bal85.5,Mo0.65,Nb/Cb0.25, Ni0.6,V0.3	H. 46	—	—
Cr12,Fe/Bal81.5,Nb/Cb0.8,Ni2.5	H. 59	—	—
Cr32.2,Fe/Bal59.5,Ni12.3,W3	H. R. Crown Max	—	—
Al0.38,Cr21,Fe45,Ni32.5,Ti0.40	Incoloy 800	N08800 N08800 N08800 N08800 N08800 N08800	Incoloy 800 25 NC 35 20 2.4856 Nical C ISO No. 6 ISO No. 8
Al0.3,Cr21,Fe45,Ni32,Ti0.40	Incoloy 800H	N08810 N08810 N08810	Incoloy 800H ISO No. 9 Nical C2
Al0.58,Cr21,Fe46,Ni32.5,Ti0.75	Incoloy 802	—	—
Cr20,Fe/Bal58,Ni20,Mn1,S1.0	Incoloy 840	—	—
Cr18,Fe42,Ni46,Si2.3,Mn1	Incoloy DS	—	—

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 2. Cr,Ni,Fe Alloys (Continued)			
Cr19,Fe/Bal65.8,Nb/Cb1.2,Ni12	R. 20	—	—
Cr22.5,Fe/Bal61.3,Ni11.5,W2.7	R. 22 (Cast)	—	—
Cr21.5,Fe/Bal59.1,Ni17.5,Ti0.48	R. 45	—	—
Cr19,Fe/Bal67.9,Ni9.5,W1.4,Si2.25	R. 47	—	—
Cr14,Cu4,Fe/Bal57.9,Mo4,Ni18,Ti0.6	Rex 78	—	—
Group 3. Cr,Ni,Co,Fe Alloys			
Co7,Cr16,Fe/Bal50.7,Mo2.5, Nb/Cb1.75,Ni18.5	326	—	—
Co7,Cr17,Cw3,Fe/Bal52,Mo3,Ni17,Ti0.8	337	—	—
Co10,Cr13,Fe/Bal54.5,Mo1.8,Nb/Cb3, Ni13,W2.5	G. 18B	—	—
Co10,Cr19,Fe/Bal48.5,Nb/Cb3,Ni19,W2.5	G. 19 (Cast)	—	—
B,Co6.7,Cr10.5,Fe/Bal78.6,Mo0.8, Nb/Cb0.45,Ni0.7,V0.55	H. 53	—	—
Co7,Cr10.5,Fe/Bal77,Mo0.4,Nb/Cb1.85, Ni0.8,V0.35	H. 58	—	—
Co12,Cr17,Fe/Bal49.6,Mo2.9,Nb/Cb1, N,Ni15,W2.5	Hecla E. M. 35 (C) (Cast)	—	—
Co20,Cr21,Fe/Bal32.6,Mo2.9,Nb/Cb1, N,Ni20,W2.5	Hecla M. M. 35 (C) (Cast)	—	—
Co12,Cr17,Fe/Bal49.6,Mo2.9,Nb/Cb1, N,Ni15,W2.5	Hecla E. M. 20	—	—
Co20,Cr21,Fe/Bal32.6,Mo2.9,Nb/Cb1, N,Ni20,W2.5	Hecla M. M. 20	—	—
Co9.5,Cr14.3,Fe/Bal52,Mo2,Nb/Cb2.8 Ni14.6	Rex 326D	—	—
Group 4. Nickel Base Alloys			
Al5,B,Co10,Cr10,Mo4,Ni/Bal65.8, Ti5,Zr0.12	EPK 36* (Cast)	—	—
Al6,B,Cr6,Mo2,Nb/Cb1.5,Ni/Bal73.2, W11,Zr0.12	EPD 16* (Cast)	—	—

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Cr19.5,Fe8,Mo3.1,Nb/Cb1.5,Ni/Bal61, Ta1.5,W3	G. 39 (Cast)	—	—
Al1,Co8,Cr20,Fe1,Mo6,Ni/Bal61.4,Ti1.7	G. 44 (Cast)	—	—
Cr19.5,Mo3,Nb/Cb1.5,Ni/Bal68.9,Ta1.5,W3	G. 54 (Cast)	—	—
Al2.5,B,Cr15,Fe1,Mo4,Ni/Bal72.4,Ti2.5,W2	G. 55 (Cast)	—	—
Cr15.5,Fe8,Ni/Bal75.4	G. 63	—	—
Al6,B0.25,Cr11,Fe5,Mo3,Nb/Cb2, Ni/Bal62.3,W3.5	G. 64 (Cast)	—	—
Al6,Bo22,Cr15.5,Fe5,Mo3,Ni/Bal64.2,Ti1, W4,Zr	G.67 (Cast)	—	—
Al4.2,B,Co19,Cr15,Mo6,Ni/Bal52.2, Ti3.5,Zr	G. 70	—	—
Al4.5,Co26,Cr15,Mo4.5,Ni/Bal47.4,Ti2.5	G. 73 (Cast)	—	—
Al0.7,Cr21.5,Mo9.7,Ni/Bal64.7,Ti2.5	G. 76 (Cast)	—	—
Al2,Cr16,Ni/Bal78.9,Ti3.0	G. 82	—	—
Al2,B,Co10,Cr10,Mo10,Ni/Bal63.9,Ti3	G. 83	—	—
Al1.5,B,Co14,Cr20,Mo4.5,Ni/Bal56.9, Ti3,Zr	G. 85	—	—
Al6.2,B,Co10,Cr9.5,Mo4,Nb/Cb4, Ni/Bal62.2,W4	G. 94 (Cast)	—	—
Al2.45,Cr15,Mo5,Ni/Bal75,Ti2.25	G. 95	—	—
Al0.2,B,Cr13,Mo5.5,Ni42.5,Ti2.75	G. 101	—	—
Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal46.6,W0.75	G. 103	—	—
Al6,B,Co15,Cr5,Mo3.5,Ni/Bal54.3,Ta8,W8	G. 104 (Cast)	—	—
Al1.35,Cr23,Fe14.1,Ni60.5	Inconel 601	N06601 N06601 N06601	Inconel 601 AMS 5718 AMS 5870
Al1.0,Co12.5,Cr22,Mo9,Ni54	Inconel 617	—	Inconel 617
Cr48,Ni51,Ti0.35	Inconel 671	—	Inconel 617
Al0.2,Co0.5,Cr16,Fe40,Mo0.5, Nb/Cb2.9,Ni41.5,Ti1.75	Inconel 706	N09706 N09706 N09706	Inconel 706 AMS 5605,5606, 5701,5702,5703

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al0.05,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13 Ni52.5,Ti0.9	Inconel 718	N07718	Inconel 718
		N07718	Ni-P 100-HT
		N07718	2.4668 LN
		N07718	MH.06
		N07718	ATG C1
		N07718	ISO No. 7
		N07718	NiCr 19 NbMo
		N07718	NC 19 Fe Nb
		N07718	AMS 5589,5590,
		N07718	5596,5597,5662,
		N07718	5663,5664,5832
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5	Inconel X-750	N07750	Inconel X-750
		N07750	MH.04
		N07750	NC 15 FeT(Nb)
		N07750	NC 15 T Nb A
		N07750	ATG F
		N07750	ISO No. 6
		N07750	AMS 5542,5582,
		N07750	5598,5667,5668,
		N07750	5669,5671,5698,
		N07750	5699,5778
Al0.3,Cr20,Ni/Bal78.6,Ti0.5,Y ₂ O ₃ 0.6	Inconel MA 754	—	—
Al6.3,Cr5.7,Mo2,Ni/Bal71.3,Ta3,W1	M-22 (Cast)	—	—
Co3,Cr20.5,Fe/Bal16.8,Mn1.6,Mo2.7, Nb/Cb2.9,Ni46.5,Ti1.2,W3.5	Multi-Alloy	—	—
Cr19,Fe4,Ni75,Ti0.4	Nimonic 75	—	Nimonic 75
		—	Ni-P 91-HT
		—	MH.05
		—	ATG R
		—	ISO No. 12
		—	2.4630 LN
		—	NiCr 20 Ti
		—	NC 20 T
		—	BS HR 5
		—	BS HR 203
		—	BS HR 403
		—	BS 2HR 504

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al0.63,Cr21,Ni25,Ti2.45	Nimonic 80	N07080	—
Al1.4,Cr19.5,Ni75,Ti2.4	Nimonic 80A	N07080	Nimonic 80A
		N07080	Ni-P 95-HT
		N07080	MH.07
		N07080	2.4631 LN
		N07080	NiCr 20 TiAl
		N07080	NC 20 TA
		N07080	BS 2HR 1
		N07080	BS HR 201
		N07080	BS 2HR 401
		N07080	BS HR 601
		N07080	ATG S3
		N07080	ISO No. 13
Al1.9,Cr30,Ni66,Ti1.8	Nimonic 81	—	—
Co0.03,Cr25,Mg0.015,Mo10,Ni64.5	Nimonic 86	—	—
Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	Nimonic 90	N07090	Nimonic 90
		N07090	Ni-P 96-HT
		N07090	MH.10
		N07090	MH.45
		N07090	2.4632 LN
		N07090	NiCr 20 Co 18 Ti
		N07090	NC 20 KTA _t
		N07090	NC 20 KTA
		N07090	BS 2HR 2
		N07090	BS 2HR 202
		N07090	BS HR 402
		N07090	BS 2HR 502
		N07090	BS 2HR 501
		N07090	BS 2HR 503
		N07090	ATG S4
		N07090	ISO No. 14
Al1.2,Co20,Cr28.5,Ni47.5,Ti2.3	Nimonic 91	—	—
Al2,Co18,Cr19.5,Fe5,Ni/Bal50,Ti4	Nimonic 95*	—	—
Al5,Co19.5,Cr11,Fe2,Mo5,Ni/Bal54.7, Ti1.5	Nimonic 100*	—	—
Al1.4,B,Co19.7,Cr24.2,Mo1.5,Nb/Cb1, Ni/Bal50.6,Ti3,Zr0.05	Nimonic 101	—	—

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	Nimonic 105	—	Nimonic 105
		—	Ni-P 61-HT
		—	2.4634 LN
		—	MH.14
		—	NiCo Cr 15 MoAlTi
		—	NKCD 20 ATv
		—	ISO No. 15
		—	BS HR 3
Al5,Co13.2,Cr14.2,Mo4,Ni59,Ti4	Nimonic 115	—	Nimonic 115
		—	Ni-P 102-HT
		—	2.4636 LN
		—	NiCo Cr 15 MoAlTi
		—	NCK 15 ATD
		—	BS HR 4
Al4.9,B,Co14.9,Fe0.7,Mo3.55,Ni/Bal56, Ti3.85,Zr0.045	Nimonic 118	—	—
Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2	Nimonic 263	—	Nimonic 263
		—	Ni-P 105-HT
		—	ISO No. 16
		—	NCK 20 D
		—	BS HR 10
		—	BS HR 206
Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9	Nimonic 901	—	Nimonic 901
		—	Fe-PA 99-HT
		—	2.4662 LN
		—	MH.16
		—	NiCr 15 MoTi
		—	Z8 NC DT42
		—	ISO No. 17
		—	AMS 5660,5661
		—	BS HR 53
Al0.06,B,Co1,Cr12.5,Fe/Bal27.3,Mo6, Ni49.5,Ti3.7	Nimonic 942	—	BS HR 404
		—	—
Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25, Ni39,Ti2.35,Zr0.005	Nimonic PE11	—	Nimonic PE 11
		—	DTD 5037
		—	Z8 NC D38
		—	X8 NiCrMoTi 38 18

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Co1.5,21.5,Fe18.5,Mo9,Ni48,W0.6	Nimonic PE13	—	Nimonic PE 13
		—	Ni-P 93-HT
		—	2.4665 LN
		—	MH.03
		—	NC 22 FeD
		—	NiCr 22 Fe 18 Mo
		—	BS HR 6
Al1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2	Nimonic PE16	—	BS HR 204
		—	Nimonic PE 16
		—	NW 11 AC
		—	X8 NiCrMoTiAl 43 16
		—	BS HR 11
Al2.7,Co17.5,Cr18,Mo4,Ni54,Ti2.9	Nimonic PK25	—	BS HR 207
		—	Nimonic PK 25
		—	2.4666
		—	Udimet 500
		—	Ni-P 94-HT
		—	NKCD 20 ATw
		—	NKCD 20 ATw
		—	AMS 5751,5753
		—	2.4983
		—	ATG W2
		—	NC 20 KDTA
		—	NiCr 18 Co
Al0.5,B,Co14,Cr20,Fe0.05,Mo4.5, Nb/Cb5,Ni/Bal53.3,Ti2.3	Nimonic PK31	—	RGT 14
		—	NCK 18 DAT
Al2,B,Co14,Cr18.5,Fe0.25,Mo7, Ni/Bal55.9,Ti2	Nimonic PK33	—	—
		—	Nimonic PK 33
		—	DTD 5057
		—	NiCr 18 Co 14 MoTiAl
Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2, Mo4.3,Ni/Bal55,Ti3,Zr	Nimonic PK50	—	NC 19 KDu/v
		N07001	Waspaloy
		N07001	NC 20K 14
		N07001	AMS5544,5704,
		N07001	5706,5707,5709,
		N07001	5828
		N07001	Nimonic PK50

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al1.2,Co17,Cr18.5,Ni60,Ti2.2	Nimoloy PK37	—	—
Al0.2,Co3,Cr20,Fe5,Ni/Bal57.7,Ti0.4	Nimocast 75 Ross Vac 54 ANC 8	—	Nimocast 75
Al1.3,Cr19.5,Ni76,Ti2.5	Nimocast 80 Ross Vac 45 ANC 9	— —	Nimocast 75 BS 3145/3
Al1.2,Co16,Cr20,Fe5,Ni/Bal54.6,Ti2.4	Nimocast 90 Ross Vac 29 ANC 10	— —	Nimocast 90 BS 3146/3
Co10,Cr22,Mo10,Ni57	Nimocast 242	—	BS 3146
Al0.9,Co16,Cr20,Fe5,Ni/Bal55.7,Ti1.6	Nimocast 257	—	—
Al4.8,Co20,Cr10,Fe2,Mo5,Ni/Bal53.8, Ti3.7	Nimocast 258	—	—
Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2	Nimocast 263	—	—
Al6,Cr13.5,Mo4.5,Ni72,Ti0.9	Nimocast 713	N07713 N07713 N07713 N07713 N07713 N07713 N07713 N07713 N07713	Nimocast 713 Ni-C 98-HT 2.4670 LN MH.31 G-NiCr 13 Al 6 Mo Nb Alloy 713 C NC 13 AD AMS 5391 BS HC 203
Al6,Cr12,Mo4.5,Ni74,Ti0.7	Nimocast 713LC	— —	Alloy 713 LC Low Carbon variety of 713
Al3.4,Co8.5,Cr16,Mo1.8,Ni61,Ta1.6, Ti3.4,W2.5	Nimocast 738	—	—
Al3.4,Co8.5,Cr16,Mo1.8,Ni61,Ta1.6, Ti3.4,W2.5	Nimocast 738LC	—	—
Al1.9,Co19,Cr22.4,Nb/Cb1,Ni48,Ta1.4, Ti3.7,W2	Nimocast 739	—	—
Al6,Cr6,Mo2,Ni73,W10.5	Nimocast PD21	—	—

TABLE 15. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United Kingdom Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Cr20,Fe3,Mo6,Ni61,W2.5	Nimocast PE10	—	Nimocast PE 10
		—	Ni-C 103-HT
		—	NC 20 Nb
		—	BS HC 202
Al5.5,Co15,Cr9.5,Mo3,Ni61,Ti4.7,V1	Nimocast PK24	N13100	Nimocast PK 24
		N13100	(IN 100)
		N13100	NK 15 CAT
		N13100	Ni-C 104-HT
		N13100	AMS 5397
		N13100	BS HC 204
Group 5. Cobalt Base Alloys			
Co46,Cr19,Fe/Bal14.8,Mo2,Nb/Cb1.4, Ni12.5,V2.8	G. 32	—	—
Co46,Cr19,Fe/Bal15.9,Mo2,Nb/Cb1.3, Ni12.5,V2.8	G. 34 (Cast)	—	—
Co/Bal68.2,Cr20,Ni10,W15	G. 87	—	—
Co/Bal62,Cr27,Fe1,Mo5,Ni3	Ross Vac 52	R30021	HS 21
		R30021	AMS 5385
B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5	Ross Vac 83	R30031	HS 31
		R30031	X 40
		R30031	AMS 5382

*In addition to the above United Kingdom Alloys, Union Carbide U. K. Limited, Glossop Derbyshire produces many U.S. type alloys of similar composition with the UCAR Alloy Designation e.g.,

<u>UCAR Alloy</u>	<u>UCAR Alloy</u>	<u>UCAR Alloy</u>	<u>UCAR Alloy</u>
75	800	IN 100	R41
80A	901	IN 102	S20/25Ti/Nb
90	A286	IN 162	U-500
601	C-130	IN 731	U-520
626	C-242	IN 738	U-700
700	C-263	IN 792	U-710
702	C-1023	M-21	U-722
706	FSX-414	M-22	Waspaloy
713	GMR-235	M-252	X
713CC	GMR-235D	M-509	X-40
718		MC-102	X-45
			X-750

TABLE 16. TYPICAL SUPERALLOYS OFFERED IN THE UNITED STATES

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 1. Ferritic (Martensitic) Steels			
Cr13,Fe/Bal81.2,Ni2,W3	Greek Ascoloy	S41800	—
Cr12,Fe/Bal83,Mn1,Mo2.75,Ni0.3,V0.25	Lapelloy	S42300	—
Cr11.5,Cu2,Fe/Bal82,Mo2.75,Ni0.3,V0.25	Lapelloy C	—	—
Co6,Cr10.5,Cu1.25,Fe/Bal86,Mo4.75N	Pyromet X-12	—	—
Cr12.5,Fe/Bal82.8,Mn1,W3	418	—	—
Cr11.5,Fe/Bal83,Mo0.5,Ni0.5,V0.4,W2.5	419	—	—
Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1	422	S42200	—
Cr12,Fe/Bal82,Mo2.25,Ni0.2,V0.5,W1.7	422M	—	—
Group 1a. Age-Hardening Stainless Steels			
Co13,Cr14.5,Fe/Bal67,V0.4	AFC-77	K65770	—
Cr15.5,Fe/Bal77.5,Mo2.75,N,Ni4.25	AM 355	—	—
Group 2. Chromium, Nickel, Iron Alloys			
Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25, Ni26,Ti2.15,V0.3	A-286	K66286	ATVS Mo
		K66286	Z 6 NCT 25
		K66286	FE-PA 92-HT
		K66286	1.4980
		K66286	RGT 1
Cr14.9,Fe/Bal50.8,Mn1.36,Ni27.4, Si1.17,W4	ATV-3	—	—
Al1.5,B,Cr13,Fe/Bal38.6,Mo5.5, Nb/Cb0.6,Ni38,Ti2.5	CG-27	N09027	—
Al1,Cr19,Fe/Bal50.5,Mo2,Ni24,Ti2.25,W1	Cinidur*	—	—
B,Cr22,Fe/Bal63.5,Mn5,Mo1,Nb/Cb1, Ni25,W1	CRM-6D	—	—
B,Cr20,Fe/Bal69.3,Mn5,Mo2,Nb/Cb2, Ni5,N,W2	CRM-15D	—	—
B,Cr20,Fe/Bal64.6,Mn5,Mo1,Nb/Cb2, Ni5,N,W1	CRM-17D	—	—
Co5,Cr23,Fe/Bal56.5,Mn5,Mo1,Nb/Cb2, Ni5,N,W1	CRM-18D	—	—
Cr16,Fe/Bal61.9,Mn2,Mo1.55,Nb/Cb1.05, Ni15,N,W1.4	Croloy 15-15N	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 2. Chromium, Nickel, Iron Alloys (Continued)			
Cr18,Fe/Bal68.7,Mn4,Mo1.3,Nb/Cb1, Ni5,W1.3	CSA	—	—
Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75	Discaloy	K66220 K66220 K66220 K66220	ATVS 2 FE-PA 93-HT Z 3 NCT 25 Z 4 NCDT 20
Al1,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4	D-979	K66979 N09979	— —
Cr19,Fe/Bal63.1,Nb/Cb1.2,Ni12,N,W3.2	EME	—	—
Al0.65,B,Cr5.5,Fe/Bal65.3,Mn1.4, Ni24.5,Ti2.25	Gannaloy*	—	—
Cr15.2,Fe/Bal54,Mo4.1,Nb/Cb2.2,Ni24.6	Gamma Cb*	—	—
Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5, Nb/Cb2,Ni45.5,Si1,W1	Hastelloy F	—	—
Cr18.5,Fe/Bal67.5,Mn3.5,Ni9.5,P0.23	HNM	—	—
Al0.38,Cr21,Fe46,Ni32.5,Ti0.38,	Incoloy alloy 800	N08800 N08800 N08800 N08800 N08800	Nicral C 25 NC 35 20 ISO No. 8 2.4856 LN 1.4176 DIN
Al0.27,Cr21,Fe46,Ni32.5,Ti0.38,Cu0.75	Incoloy alloy 800H	N08810 N08810	Nicral C2 ISO No. 5
Cr20.5,Fe44.5,Ni32,Ti1.13	Incoloy alloy 801	N08801 N08801	Nicral CT ISO No. 10
Al0.58,Cr21,Fe46,Ni32.5,Ti0.15	Incoloy alloy 802	—	—
Al0.3,Cr29.5,Fe25.4,Ni41,Ti0.6	Incoloy alloy 804	—	—
Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3, Ni41.8,Ti0.9	Incoloy alloy 825	N08825 N08825	NC 21 Fe DU Nicral K25
Al0.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5	Incoloy alloy 901	N09901	—
Al0.25,B,Cr14,Fe/Bal40.1,Mo4,Ni33,Ti2, W5.5,Zr0.15	J-1300,M-308	—	—
Al1.4,Cr18,Fe/Bal39.3,Mo4,Ni35,Ti2.25	M-813	—	—
Cr33,Ni50,W17	"MO-RE" 2*	—	—
Cr27,Fe/Bal16.2,Ni48,Mn1.3,Si1,W6	NA-22H*	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 2. Chromium, Nickel, Iron Alloys (Continued)			
Al1,B,Co4,Cr13,Fe/Bal28.6,Mo6,Ni44,Ti3	Pyromet 860	—	—
Cr14,Fe/Bal52.4,Mo4,Nb/Cb4,Ni20,W4	S-495	—	—
Cr18.5,Fe/Bal52.9,Mn1.2,Mo4,Nb/Cb4, Ni20,W4	S-588	—	—
Cr26,Fe/Bal55.4,Mn1,Nb/Cb1,Ni15,Si1	Thermalloy 40A2	—	—
Cr15,Fe/Bal45.8,Mn1,Nb/Cb1,Ni35,Si1.7	Thermalloy 50CQ	—	—
Al1.4,Cr17.8,Fe/Bal49.7,Mn1.7,Mo2.5, Ni23.6,Ti1.4,W1	Turbaloy 13	—	—
Al0.15,B,Cr16,Fe/Bal55,Nb/Cb0.5,Ni25, Ti4,Zr0.057	Unitemp 212	—	—
Al0.25,B,Cr14.8,Fe/Bal52.2,Mo1.25,Ni27, Ti35,V0.5	V-57	—	—
B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25, Ti2.85	W-545	K66545	—
Cr16,Fe/Bal50.7,Mn1.35,Mo6,Ni25,N	16-25-6	—	—
Cr15.9,Cu3,Fe/Bal62.4,Mo2.5,Nb/Cb0.45, Ni14.1,Ti0.25	17-14 CuMo	—	—
Cr19,Fe/Bal66.8,Mn1,Mo1.25,Ni9, Nb/Cb0.4,Ti0.3,W1.2	19-9DL	K63198	—
Cr19.2,Fe/Bal66.7,Mn1,Mo1.50,Ni9, Ti0.55,W1.2	19-9DX	K63199	—
Cr19,Fe/Bal68.3,Mo0.4,Nb/Cb0.44,Ni9, Ti0.4,W1.3	19-9WMo	K63199	—
Cr20.5,Fe/Bal67.3,Mo0.5,Nb/Cb1.3, Ni8.5,Ti0.2,W1.55	19-9WX	—	—
Cr29,Cu0.25,Fe/Bal59.5,Mn1.5,Mo0.25, Ni-19.5	29-9	—	—
Group 2a. High-Manganese Modifications			
B,Cr12.5,Fe/Bal64.6,Mn18,Mo3,N,V0.9	AF-71*	—	—
Cr12.5,Fe/Bal64.9,Mn18,Mo3,Ni,V0.8	AF-183*	—	—
Cr25,Fe/Bal46.9,Mn12,Ni15,N0.45	CMN	—	—
Cr21,Fe/Bal64,Mn11.5,N,Si2.6	Gaman H	—	—
Cr22,Fe/Bal68,Mn8.5,N	G-192*	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 2a. High-Manganese Modifications (Continued)			
Cr21,Fe/Bal59.7,Mn8.5,Mo1.5,Ni8,Po23	HTX	—	—
Cr16,Fe/Bal52,Mn9.5,Mo2.25,Ni20	Kromarc 55	—	—
B,Cr15,Fe/Bal50,Mn10,Mo2.25,Ni22,N, V0.25,Zr	Kromarc 58	—	—
Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N	16-15-6	—	—
Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N	21-6-9	—	—
Cr20.5,Fe/Bal63.5,Mn8.5,Ni3.5,N	22-4-9	—	—
Cr19.75,Fe/Bal72.5,Mn8.25,Mo2.5,Ni6,N	205	—	—
Cr17,Fe/Bal66,Mn15,Ni1.25,N	216	—	—
Group 3. Chromium, Nickel, Cobalt, Iron Alloys			
Co11.5,Cr21,Fe/Bal44.9,Mn1.5,Mo4.5, Nb/Cb0.75,Ni13,N,W1.5	Haynes Alloy No. 56*	—	—
Co20,Cr21,Fe/Bal31.4,Mn1.5,Mo3,Ni20, W2.5	Haynes Alloy No. 96*	—	—
B,Co12,Cr21,Fe/Bal40.1,Mn1.5,Mo4,Ni18, W2.5	Haynes Alloy No. 99*	—	—
Al0.2,Co22,Cr18,Fe/Bal14.3,Ni42,Ti2.1	K-42B*	—	—
Co12,Cr17,Fe/Bal47.7,Mn1.5,Mo3, Nb/Cb1,Ni15,W2	N-153*	—	—
Co21,Cr17,Fe/Bal30.7,Mn1.5,Mo3, Nb/Cb1,Ni24,W2	N-154*	—	—
Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3, Nb/Cb1,Ni20,N,W2.5	N-155, Multimet	R30155 R30155 R30155 R30155 R30155 R30155	ATG X Z 12 CNKDW 20 FE-PA 91-HT 1.4971 DIN RGT 32 1.4974 LN
Co24,Cr17,Fe/Bal17.7,Mn1.5,Mo3, Nb/Cb1,Ni33,W2	N-156*	—	—
Co19,Cr18,Fe/Bal22.9,Mo3,Ni36,Ti2.6	Refractaloy 26	— —	ATVS 7 Mo Z 6 NKCDT 38
Co30,Cr20,Fe/Bal16.1,Mn2,Mo8,Ni21,W4.2	Refractaloy 70	—	—
Co30,Cr20,Fe/Bal13.6,Mo10,Ni20,W5	Refractaloy 80*	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 3. Chromium, Nickel, Cobalt, Iron Alloys (Continued)			
Co20,Cr14,Fe/Bal32.5,Mo4,Nb/Cb4, Ni20,W4	S-497*	—	—
Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4, Nb/Cb4,Ni20,W4	S-590	R30590 R30590 R30590	ATG XX Z 42 CKNDW 20 RGT 33
Group 4. Nickel Base Alloys			
Al6.1,B,Cr12.5,Fe2.5,Mo4.2,Nb/Cb2, Ni/Bal70.9,Ti0.8,Zr	Alloy 713C	N0713 N0713 N0713 N0713 N0713	Inconel 713 C ATG S9 NC 13 AD NI-C 98-HT 2.4670 LN
Al5.9,B,Cr12,Fe0.5,Mo4.5,Nb/Cb2, Ni/Bal73.6,Ti0.6,Zr	Alloy 713LC	N0713	—
Al4,B,Co17,Cr15,Mo5.25,Ni/Bal55.2,Ti3.5	Astroloy	—	—
Al6,B,Co10,Cr8,Fe0.35,Mo6,Nb/Cb0.1, Ni/Bal63.5,Ta4.3,Ti1,W0.1,Zr	B-1900	—	—
Al6,B,Co10,Cr10,Mo3,Ni/Bal62.8,Ta7, Ti1,Zr0.1	B-1910	—	—
Al4.6,B,Co10,Cr10,Mo3,Ni/Bal62.8, Ta7,Ti1,Zr0.1	DCM*	—	—
Al0.45,Co20,Cr20,Mo5.9,Ti2.15	C-263	— — — —	NI-P 105-HT ATG W0 NCK 20 D 2.4650 LN
Al5,Cr15,Fe5,Mo5,Ni/Bal68.75	F-342	—	—
Al4.5,Co10,Cr6,Mo1,Nb/Cb2,Ni/Bal60, Ta6,Ti2,W8.5	Ford 406	—	—
Al6,B,Cr5,Fe4,Mo15,Nb/Cb2,Ni/Bal66.6	GE-B-129	—	—
Al3,Cr15.5,Fe10,Mo5.25,Ni/Bal63.19,Ti2	GMR 235	—	—
Al3.5,Cr15.5,Fe4.5,Mo5,Ni/Bal68.4,Ti2.9	GMR 235D	—	—
Al0.75,Cr27,Fe6,Mn1.25,Mo1.5, Ni/Bal60.22,Ti2,W1.5	G-157*	—	—
Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	Hastelloy B*	N10001 N10001 N10001 N10001	ARC 1628 ND 27 Fe V ISO No. 23 2.4600

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Cr0.6,Fe5,Mo25,Ni/Bal62.4,V2	Hastelloy B-282	—	—
Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4	Hastelloy C	N10002 N10002 N10002	ARC 6015 NC 17 DWY 2.4602
Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4, V0.35,W3.75	Hastelloy C-276	N10276	—
Al2,Co2.5,Cr15.5,Fe10,Mo5.5,Ni/Bal61.85, Ti2.5	Hastelloy R-235	—	—
Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6	Hastelloy W	N10004	—
Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6	Hastelloy X	N06002 N06002 N06002 N06002 N06002 N06002	NI-P 93-HT ATG E RGT 5 NC 22 Fe D ISO No. 19 2.4613 LN
Al1.35,Cr23,Fe14.1,Ni60.5	Inconel alloy 601	N06601 N06601	Nicral ZA ISO No. 5
Al0.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2	Inconel alloy 625	N06625 N06625 N06625	ATG E2 NC 22 Fe D Nb 2.4856
Al3,Co28.5,Cr15,Fe0.7,Mo3.75,Ni46,Ti2.2	Inconel alloy 700	— —	ATG S8 NK 27 CADT
Al3.25,Cr15.5,Fe1,Ni79.5,Ti0.63	Inconel alloy 702	N07702	—
Al0.2,Co0.5,Cr16,Fe40,Mo0.5, Nb/Cb2.9,Ni41.5,Ti1.75	Inconel alloy 706	N07706	—
Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13, Ni52.5,Ti0.9	Inconel alloy 718	N07718 N07718 N07718 N07718 N07718 N07718	NC 19 Fe Nb ATG C1 2.4668 LN NI-P 100-HT RGT 601 ISO No. 7
Cr16,Fe6.5,Mn2.25,Ni71,Ti3.05	Inconel alloy 721	—	—
Al0.7,Cr15.5,Fe7,Ni75,Ti2.38	Inconel alloy 722	—	—
Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5	Inconel alloy X-750	N07750 N07750 N07750 N07750	ATG F NC 15 T Nb A RGT 6 ISO No. 6

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al1.2,Cr15.5,Fe7,Nb/Cb0.95,Ni72.5,Ti2.3	Inconel alloy 751	—	—
Al5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7, V,Zr	IN-100	N13100 N13100	ATG M2 NK 15 CAT
Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9 Ni/Bal67.8,Ti0.5,W3,Zr0.03	IN-102	N06102	—
Al6.4,B,Cr10,Fe0.05,Mo4,Nb/Cb1, Ni/Bal72.4,Ta2,Ti0.9,W2,Zr0.1	IN-162	—	—
Al5.5,B,Co10,Cr9.5,Fe0.5,Mo2.5, Ni/Bal65.7,Ti4.65,V0.95,Zr0.06	IN-731	—	—
Al3.4,B,Co8.5,Cr16,Fe0.5,Mo1.75, Nb/Cb0.9,Ni/Bal60.4,Ta1.75,Ti3.4,W3.4 Zr0.1	IN-738	—	—
Al3.2,B,Co9,Cr12.7,Mo2,Ni/Bal60.8, Ta3.9,Ti4.2,W3.9,Zr0.10	IN-792	—	—
Al6,Cr10,Fe4.5,Mo5,Nb/Cb2,Ni70.5,Zr0.3	I-1360	—	—
Al5,B,Co10,Cr9,Nb/Cb1,Ni/Bal60.3,Ti2, W12.5,Zr0.05	MAR-M 200	—	—
Al5,B,B,Co10,Mo2.5,Ni/Bal63,Ti2,W5.5, Zr0.05	MAR-M 211	—	—
Al5.5,B,Co10,Cr9,Mo2.5,Ni/Bal59.2, Ta1.5,Ti1.5,W10,Zr0.05	MAR-M 246	—	—
Al4.25,B,Co9.5,Cr15.8,Mo3.8,Nb/Cb2, Ni/Bal60.6,Ti1.75,W3.8,Zr0.05	MAR-M 421	—	—
Al2.8,B,Co20,Cr15.5,Nb/Cb2,Ni/Bal50, Ta2,Ti4.3,W3,Zr0.05	MAR-M 432	—	—
Al1,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6	M-252,J-1500	N07252	—
Al1.1,Cr19,Fe13,Mo7,Ni/Bal57.5,Ti2.3	M-600	—	—
Al4,B,Co10,Cr12,Ni/Bal61.8,Ti4,W8,Zr0.05	Nicrotung	—	—
Al8,Mo18,Ni/Bal74	NX-188	—	—
Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5, Si1.25,W3	RA-333	N06333 N06333 N06333	ATG 33 Z 6 NCKDW 45 ATG 33
Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1	René 41	N07041	RGT 15

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al1.25,B,Cr15,Fe22,Mo9,Nb/Cb2.25, Ni/Bal47.4,Ti2.5	René 62*	—	—
Al3,B,Co9.5,Cr14,Mo4,Ni/Bal60.3,Ti5, W4,Zr0.03	René 80	—	—
Al5.3,B,Co15,Cr9.3,Mo3.25,Ni/Bal58.2, Ti3.3,W5.35,Zr0.03	René 85	—	—
Al3.5,B,Co8,Cr14,Mo3.5,Nb/Cb3.5, Ni/Bal61.3,Ti2.5,W3.5,Zr0.05	René 95	—	—
Al4.4,B,Co22,Cr15,Fe7,Mo4.5,Ni/Bal49.8, Ti2.4	SEL	—	—
Al5.4,B,Co14.5,Cr11,Fe0.5,Mo6.5,Nb/Cb0.5, Ni/Bal156.2,Ti2.5,W1.5	SEL-15	—	—
Al6,Cr6,Mo4,Ni/Bal68.4,Ta8,V2.5,W4,Zr1	TAZ-8	—	—
Al6,B,Cr6,Mo4,Nb/Cb2.5,Ni/Bal68.4, Ta8,W4,Zr1	TAZ-8A	—	—
Al6,B,Co5,Cr6,Mo4,Nb/Cb1.5,Ni/Bal64.4, Ta8,W4,Zr1	TAZ-8B	—	—
Cr20,Ni/Bal78	TDNiCr	—	—
Co1.25,Cr25,Fe5,Mn2.5,Mo3,Ni/Bal43.6, Si1,W7	Thetaloy	—	—
Al5.4,B,Co7.5,Cr6.1,Mo2,Nb/Cb0.5, HF0.43,Ni/Bal62,Ta9,RH0.3	TRW-NASA VI A	—	—
Al6,B,Cr13,Nb/Cb1.5,Ni/Bal69.7,Ti0.6, W9,Zr0.07	TRW 1800	—	—
Al6.3,B,Co10,Cr10.3,Nb/Cb1.5,Ni/Bal61.7, Ti1.1,Zr0.10	TRW 1900	—	—
Al6.3,B,Co10,Cr10.3,Mo9,Nb/Cb1.5, Ni/Bal60.2,Ta0.5,Ti6.3	TRW MOD-1900	—	—
Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2, Ti2.9	Udimet 500	N07500 N07500 N07500 N07500 N07500	NI-P 94-HT RGT 14 ATG W2 NC 20 KDTA 2.4983 DIN
Al2,B,Co12,Cr19,Mo6,Ni/Bal56.9,Ti3,W1	Udimet 520	—	—
Al6,B,Co1,Cr17,Fe17.5,Mo3.1,Nb/Cb6, Ni/Bal50.5,Ti1.1,W3	Udimet 630	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 4. Nickel Base Alloys (Continued)			
Al4.25,B,Co18.5,Cr15,Fe1,Mo5.2, Ni/Bal52.3,Ti3.5	Udimet 700	— —	ATG W3 NK 18 CDAT
Al2.5,B,Co15,Cr18,Mo3,Ni/Bal54.2,Ti5, W1.5	Udimet 710	— —	ATG W4 NCK 18 TDA
Al4.6,B,Co10,Cr12,Mo3,Ni/Bal59.5,Ta1.5, Ti3,W6,Zr0.10	Unitemp AF 2-1DA	—	—
Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3, Ni/Bal55,Ti3,Zr0.09	Waspaloy A	N07001 N07001 N07001 N07001 N07001 N07001 N07001 N07001	Nimonic PK50 RGT 132 ATG W1 NI-P 101-HT ISO No. 20 NC 20 K 14 2.4054 LN 2.4654 DIN
Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3, Ni/Bal54.5,Ti3,Zr0.07	Waspaloy B	—	—
Al6.5,Ni/Bal73.3,W18.5,Zr1.5	WAZ-20	—	—
Group 5. Cobalt Base Alloys			
Co56,Cr15,Fe2,Mn1.2,Mo5.5,Nb/Cb1, Ni10,W10	AF-94*	—	—
Al3.5,Co/Bal58,Cr21,Fe2.5,Nb/Cb2, Ni1,W11,Y0.1	AiResist 13	—	—
Al3.5,Co/Bal65.9,Cr19,Ta6.5,W4.7,Y0.1,Zr	AiResist 213	—	—
Al4.3,Co/Bal64.1,Cr19,Ta7.5,W4.5,Y0.17, Zr	AiResist 215	—	—
B,Co/Bal49.6,Cr29.5,Ni10.5,W7	FSX-414	—	—
Co/Bal46.3,Cr27.5,Fe20,Mo1.5,Ni3,Si1	Haynes Alloy No. 150	—	—
B,Co/Bal64.7,Cr20,Mn1,Si1,W12.7	Haynes Alloy No. 151	—	—
Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14	Haynes Alloy No. 188	R30188	—
Co/Bal62,Cr27,Fe1,Mo5,Ni3	Haynes Stellite Alloy No. 21	R30021	—
Co/Bal66.7,Cr24,Fe1,Mo5,Ni2	Haynes Stellite Alloy No. 23	R30023	—
Co/Bal35.2,Cr25,Fe1,Mo5.5,Ni32	Haynes Stellite Alloy No. 27	R30027	—
Co/Bal50.3,Cr26,Fe1,Mo5.5,Ni32	Haynes Stellite Alloy No. 30	R30030	—
B,Co/Bal54.9,Cr19,Fe1,Mn1.2,Ni10,W15	Haynes Stellite Alloy No. 36	—	—
B,Co/Bal43.6,Cr26,Fe3,Ni10,W15	HE-1049	—	—

TABLE 16. (Continued)

Nominal Composition, weight percent (Essential Elements Only)	United States Alloy Designation	Related UNS Number	Related International Common Name(s) or Designations
Group 5. Cobalt Base Alloys (Continued)			
Co50,Cr19.2,Fe1.3,Nb/Cb0.9,Ni15.5,W12	I-336	—	—
Co38,Cr20,Fe2,Ni28,Ti4,W7	J-1570	—	—
B,Co/Bal36,Cr19,Ni27,Ta2,Ti3.8,W12	J-1650	—	—
B,Co/Bal58.4,Cr21.5,Ta9,W10,Zr0.02	MAR-M 302	—	—
Co/Bal71,Cr21.5,Ta4.5,Ti0.75,W9,Zr2.25	MAR-M 322	—	—
Co/Bal54.7,Cr24,Ni10,Ta3.5,Ti0.2,W7, Zr0.5	MAR-M 509	—	—
Co/Bal52.3,Cr20,Ni20,Ni20,Ta7.5,Zr0.10	MAR-M 918	—	—
Al0.75,Co36.5,Cr19.5,Fe1.6,Nb/Cb1.2, Ni24.5,Ti2.15	M-203	—	—
B,Co40.5,Cr18.5,Fe1.6,Nb/Cb1.2,Ni24.5, W12	M-204	—	—
B,Al2.75,Co37.5,Cr18.5,Fe1.6,Nb/Cb1.2, Ni24.5,W12	M-205	—	—
B,Co/Bal59.4,Cr25,W15	ML-1700	—	—
Al0.22,Co/Bal73.7,Ni22.5,Fe1,Ti1.8,Zr	Nivco-10	—	—
Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4, Ni20,W4	S-816	R30816	RGT 35
B,Co/Bal42,Cr20,Fe3,Mn1.2,Mo4,Nb/Cb4, Ni20,W4	S-816+B	R30816	—
Co/Bal42.3,Cr25,Fe3,Mn1,Mo4,Nb/Cb2, Ni20,W2	V-36	—	—
Co/Bal52.9,Cr20,Mn1.5,Ni10,W15	WF-11, L605, HS-25	R30605 R30605 R30605 R30605 R30605	CO-P 92-HT ATGH KC 20 WN 2.4964 LN RGT 36
Co/Bal53.7,Cr20,Mn1.4,Ni10,Ti1,W10.7	WF-31	—	—
Co/Bal61.5,Cr21,Fe2,Nb/Cb2,Ni1,W11	WI-52	—	—
B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5	X-40, HS-31	R30031	—
B,Co/Bal53.2,Cr25.5,Fe2,Ni10.5,W7.5	X-45	—	—
Co40,Cr22.5,Fe2.5,Ni20,W12	X-50	—	—
Co58,Cr23,Fe1,Mo6,Ni10	X-63	—	—
Co42.5,Cr19,Fe1,Nb/Cb1.5,Ni24.5,W10	25 Ni	—	—

*Alloys of Historical Interest.

TABLE 17. CURRENT CZECHOSLOVAKIAN AND POLISH STANDARDS COVERING SUPERALLOYS

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
Czechoslovakian Statni Norma				
CSN4 17252	—	—	—	—
CSN4 17331	—	—	—	—
CSN4 17335	—	—	—	—
CSN4 17351	—	—	—	—
Polish Polski Komitet Normalizacyjny				
PN-61/H-87045	01/70	Wrought Nickel Alloy Grades	—	—
PN-75/H-87047	01/77	Soft Magnetic Alloys Nickel-Iron and Cobalt-Iron Grades	—	—
Polish Hutnictwo Zelaza i Stali Norma Branzowa				
BN-77/0861-01	01/70	Wrought Nickel and Iron Grades	—	—

TABLE 18. CURRENT EUROPEAN ECONOMIC COMMUNITY (EURONORM) STANDARDS COVERING SUPERALLOYS

European Draft Standard (prEN) Number	Date Mo/Yr	Werkstoff-Nr			Title of Standard	Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)			Related UNS Number	Related International Alloy Designations	
		Werkstoff Nr nach DIN 17 007 German Material Number	Luftfahrt- werkstoff-Nr. (LN) German Aeronautical Material Number								
EN2277	—	—	1.4939	—	—	—	—	—	AECMA FG-PM 37		
EN2278	—	—	1.4939	—	—	—	—	—	Z 12 CND 12		
EN2279	—	—	1.4939	—	—	—	—	—	RNOD Ni		
EN2280	—	—	1.4939	—	—	—	—	—	—		
EN2173	—	—	1.4943	—	—	X6CrNiWbNb16 16	—	K66220	AECMA Fe-Pa 93-HT		
EN2174	—	—	1.4943	—	—	—	—	K66220	Discaloy		
EN2175	—	—	1.4943	—	—	—	—	K66220	ATVS 2		
								—	Z3 NCT 25-Z4 NCDT 26		
EN2119	—	1.4980	1.4944	—	—	X5NiCrTi26 15	—	K66286	AECMA Fe-Pa 92-HT		
EN2171	—	1.4980	1.4944	—	—	—	—	K66286	A-286		
EN2172	—	1.4980	1.4944	—	—	—	—	K66286	Z 06 NCT 25		
								K66286	RGT 1		
EN2167	—	1.4971	1.4974	—	—	X12CrCoNi21 20	—	R30155	AECMA Fe-Pa 91-HT		
EN2168	—	1.4971	1.4974	—	—	—	—	R30155	N-155		
EN2169	—	1.4971	1.4974	—	—	—	—	R30155	Z 12 CrCoNi 21 20		
EN2170	—	1.4971	1.4974	—	—	—	—	R30155	AMS 5531		
EN2237	—	1.4971	1.4974	—	—	—	—	R30155	RGT 32		
EN 2238	—	1.4971	1.4974	—	—	—	—	R30155	Z 12 CNKDW 20		
EN2239	—	1.4971	1.4974	—	—	—	—	R30155	ATG X		
EN2293	—	2.4951	2.4630	—	—	NiCr20Ti	—	—	AECMA Ni-P 91-HT		
EN2294	—	2.4951	2.4630	—	—	—	—	—	Nimonic 75		
EN2302	—	2.4951	2.4630	—	—	—	—	—	NC 20 T		
EN2306	—	2.4951	2.4630	—	—	—	—	—	ATG R		
EN2307	—	2.4951	2.4630	—	—	—	—	—	—		
EN2308	—	2.4951	2.4630	—	—	—	—	—	—		

TABLE 18. (Continued)

European Draft Standard (prEN) Number	Werkstoff-Nr				Date Mo/Yr	Title of Standard	Werkstoff			Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)	Related UNS Number	Related International Alloy Designations
	Nr nach DIN 17 007 German Material Number	Luftfahrt- werkstoff-Nr. (LN) German Aeronautical Material Number	German Material Number	German Material Number								
EN2188	—	—	2.4952	2.4631	—	—	—	NiCr20TiAl	N07080	AECMA Ni-P 95-HT		
EN2189	—	—	2.4952	2.4631	—	—	—	—	N07080	Nimonic 80 A		
EN2190	—	—	2.4952	2.4631	—	—	—	—	N07080	NC 20 TA		
EN2191	—	—	2.4952	2.4631	—	—	—	—	N07080	ATG S3		
EN2295	—	—	2.4969	2.4632	—	—	—	NiCr20Co18Ti	N07090	AECMA Ni-P 96-HT		
EN2296	—	—	2.4969	2.4632	—	—	—	—	N07090	Nimonic 90		
EN2297	—	—	2.4969	2.4632	—	—	—	—	N07090	NC 20 KTA		
EN2298	—	—	2.4969	2.4632	—	—	—	—	N07090	ATG S4		
EN 2299	—	—	2.4969	2.4632	—	—	—	—	N07090	—		
EN2179	—	—	—	2.4634	—	—	—	NiCo20Cr15MoAlTi	—	AECMA Ni-P 61-HT		
EN2180	—	—	—	2.4634	—	—	—	NiCoCr15MoAlTi	—	Nimonic 105		
EN2181	—	—	—	2.4634	—	—	—	—	—	NK 19 CDAT		
EN2199	—	—	—	2.4650	—	—	—	—	—	AECMA Ni-P 105-HT		
EN2000	—	—	—	2.4650	—	—	—	—	—	Nimonic 263		
EN2001	—	—	—	2.4650	—	—	—	—	—	NCK 20 D		
EN2002	—	—	—	2.4650	—	—	—	—	—	C 263		
EN2193	—	—	—	2.4654	—	—	—	—	N07001	AECMA Ni-P 101-HT		
EN2194	—	—	—	2.4654	—	—	—	—	N07001	Wespaloy		
EN2195	—	—	—	2.4654	—	—	—	—	N07001	Nimonic PK-50		
								—	N07001	ATG W1		
								—	N07701	NC 20 K 14		
								—	N07701	ATG W1		
EN2176	—	—	2.4975	2.4662	—	—	—	NiFeCr12Mo	—	AECMA Fe-Pa 99-HT		
EN2177	—	—	2.4975	2.4662	—	—	—	NiCr15MoTi	—	NC 14 FeDT		
EN2178	—	—	2.4975	2.4662	—	—	—	—	—	AMS 5660		
								—	—	RG 78		

TABLE 18. (Continued)

European Draft Standard (prEN) Number	Werkstoff-Nr				Date Mo/Yr	Title of Standard	Bezeichnung nach DIN 17 006			Related UNS Number	Related International Alloy Designations
	Werkstoff Nr nach DIN 17 007 German Material Number	Luftfahrt- werkstoff-Nr. (LN) German Aeronautical Material Number									
EN2182	—	2.4972	2.4665	NiCr22FeMo	N06002	AECMA Ni-P 93-HT					
EN2183	—	2.4972	2.4665	—	N06002	NC 22 FeD					
EN2184	—	2.4972	2.4665	—	N06002	AMS 5536					
EN2185	—	2.4972	2.4665	—	N06002	RGT 5					
				—	N06002	Hastelloy X					
				—	N06002	ATG E					
EN2192	—	—	2.4670		N07713	AECMA Ni-C 98-HT					
				—	N07713	Nimocast 713					
				—	N07713	Inconel 713 C					
				—	N07713	ATG S9					
EN2233	—	—	2.4674		—	AECMA Ni-C 104-HT					
EN 2161	—	—	2.4682		—	AECMA Co-C 91-HT					
EN2162	—	2.4967	2.4964	CoCr20W15Ni	R30605	AECMA Co-P 92-HT					
EN2163	—	2.4967	2.4964	—	R30605	L-605, MS 25					
EN2164	—	2.4967	2.4964	—	R30605	RGT 36					
EN2165	—	2.4967	2.4964	—	R30605	ATG H					
EN2166	—	2.4967	2.4964	—	R30605						

TABLE 19. CURRENT FRENCH AND EUROPEAN (AECMA) STANDARDS COVERING SUPERALLOYS

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>NF and AFNOR</u>				
NF L 09-001	12/76	Norme Francaise (French National Standard) Identification of materials used in aerospace including references	—	—
NF L 09-002	11/72	Norme Francaise (French National Standard) Identification of modifications and improvements applied to materials used in aerospace	—	—
NF L 21-203	11/74	Norme Francaise (French National Standard) Technical specifications for rivets of steel and stainless steel and refractory alloys	—	—
NF A35-580	7/73	Norme Francaise (French National Standard) Austenitic steels resistant to high temperatures	—	—
NF A 54-401	6/73	Norme Francaise (French National Standard) Nickel and nickel-base alloys, nickel-molybdenum, and nickel-molybdenum-chromium alloys	—	—
AFNOR Alloy Designations	— —	Norme Francaise (French National Standard) The many French AFNOR Superalloy Designations will be found in Table 7 French Superalloys	—	—
<u>AECMA</u>				
Co-P 92-HT	— —	AECMA Norm for: Cobalt-base alloy + 20Cr, 10Ni, 3Fe, 1.5Mn (Wrought Forms)	R30605 R30605	AFNOR KC 20 WN (HS 25, L-605)
Fe-PA 91-HT	— —	AECMA Norm for: Heat-resistant stainless steel—21Cr, 20Ni, 3Mo, 20Co, 2.5W, Bal. Fe (Wrought Forms)	R30155 R30155 R30155 R30155	AFNOR Z 12 CNKDW.20 Werkstoff 1.4974 LN (N-155) AMS 5531
Fe-PA 92-HT	— —	AECMA Norm for: Heat-resistant stainless steel—14.75Cr, 25.5Ni, 1.25Mo, 2.1Ti, 0.17Al, 0.3V, Bal. Fe (Wrought Forms)	K66286 K66286	AFNOR Z 6 NCT 25 (A-286)
Fe-Pa 93-HT	— —	AECMA Norm for: Heat-resistant stainless steel—14.75Cr, 25.5Ni, 1.25Mo, 2.1Ti, 0.17Al, 0.007B, 0.3V, Bal. Fe (Wrought Forms)	—	AFNOR Z 3 NCT 25

TABLE 19. (Continued)

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>AECMA</u>				
Fe-PA 99-HT	—	AECMA Norm for: Heat-resistant stainless steel—12.5Cr, 43.5Ni, 6Mo, 3Ti, 0.3Al, Bal. Fe (Wrought Forms)	— — — —	AFNOR Z 8 NC DT 42 (Nimonic 901) (BS HR 53, HR 404) (AMS 5660, 5661) (Werkstoff 2.4662 LN)
Fe-PM 35	—	AECMA Norm for: Heat-resistant stainless steel—11.5Cr, 0.5Ni, 0.75Mo, 0.4V, 0.3Nb, Bal. Fe (Wrought Forms)	—	AFNOR Z 20 CD Nb11
Fe-PM 38	—	AECMA Norm for: Heat-resistant stainless steel—10.7Cr, 0.5Ni, 5Co, 0.75Mo, 0.008B, 0.35W, 2.2V, 3.2Nb, 0.22N, Bal. Fe (Wrought Forms)	—	AFNOR Z 10 CKD 10
Ni-C 98-HT	—	AECMA Norm for: Nickel-base alloy + 13.5Cr, 4.5Mo, 0.9Ti, 6Al (Castings)	— — —	AFNOR NC 13 AD (Nimocast 713) (BS HC 203) (AMS 5391)
Ni-C 103-HT	—	AECMA Norm for: Nickel-base alloy + 20Cr, 6Mo, 2.5W, 3Fe (Castings)	— — —	AFNOR NC 20 Nb (Nimocast PE10) (BS HC 202)
Ni-C 104-HT	—	AECMA Norm for: Nickel-base alloy + 9.5Cr, 15Co, 3Mo, 4.7Ti, 5.5Al, 1V (Castings)	N13100 N13100 N13100 N13100 N13100	AFNOR NK 15 CAT (Nimocast PK24) (IN 100) (BS HC 204) (AMS 5397)
Ni-P 61-HT	—	AECMA Norm for: Nickel-base alloy + 14.8Cr, 20Co, 5Mo, 1.2Ti, 4.7Al, 0.006B, 1Fe, 0.07Zr (Wrought Forms)	— —	AFNOR NKCD 20 Atv (Nimonic 105) (Werkstoff 2.4634 LN)
Ni-P 91-HT	—	AECMA Norm for: Nickel-base alloy + 19.5Cr, 2.5Co, 0.4Ti, 2.5Fe (Wrought Forms)	— — — —	AFNOR NC 20 T (Nimonic 75) (BS HR 5, HR 204, HR 403, 2HR 504) (Werkstoff 2.4630 LN)
Ni-P 93-HT	—	AECMA Norm for: Nickel-base alloy + 21.7Cr, 1.5Co, 9Mo, 0.6W (Wrought Forms)	— — — —	AFNOR NC 22 FeD (Nimonic PE13) (BS HR 6, HR 204) (Werkstoff 2.4630 LN)
Ni-P 94-HT	—	AECMA Norm for: Nickel-base alloy + 20Cr, 17.5Co, 4Mo, 3Ti, 3.05Al, 0.005B, 4Fe, 0.03Zr (Wrought Forms)	N7500 N7500	AFNOR NCK 19 DAT (Udimet 500)

TABLE 19. (Continued)

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>AECMA</u>				
Ni-P 95-HT	—	AECMA Norm for: Nickel-base alloy + 19.5Cr, 2Co, 1.5Fe, 2.25Ti, 1.4Al, 0.004B (Wrought Forms)	N07080 N07080 N07080 N07080	AFNOR NC 20 TA (Nimonic 80A) (BS HR 201, HR 601 2HR 1, 2HR 401) (Werkstoff 2.4631 LN)
Ni-P 96-HT	—	AECMA Norm for: Nickel-base alloy + 19.5Cr, 18Co, 2.5Ti, 1.5Al, 0.01B, 1Fe (Wrought Forms)	N07090 N07090 N07090 N07090	AFNOR NC 20 KTA _t (Nimonic 90) (BS HR402, 2HR 2, 2HR 202, 2HR 501, 2HR 502, 2HR 503) (Werkstoff 2.4632 LN)
Ni-P 100-HT	—	AECMA Norm for: Nickel-base alloy + 19Cr, 18.5Fe, 5.1Nb, 0.9Ti, 0.5Al (Wrought Forms)	N07718 N07718 N07718 N07718	AFNOR NC 19 FeNb (Inconel 718) (AMS 5589) (Werkstoff 2.4668 LN)
Ni-P 101-HT	—	AECMA Norm for: Nickel-base alloy + 19.5Cr, 13.5Co, 4.2Mo, 3Ti, 1.4Al, 2Fe, 0.006B, 0.05Zr (Wrought Forms)	N07001 N07001	AFNOR NC 20 K 14 (Waspaloy)
Ni-P 102-HT	—	AECMA Norm for: Nickel-base alloy + 14.2Cr, 13.2Co, 4Mo, 4Ti, 5Al (Wrought Forms)	— — — —	AFNOR NCK 15 ATD (Nimonic 115) (BS HR 4) (Werkstoff 2.4636 LN)
Ni-P 105-HT	—	AECMA Norm for: Nickel-base alloy + 20Cr, 20Co, 5.85Mo, 2.15Ti, 0.45Al, 0.7Fe— (2.6Ti + Al) (Wrought Forms)	— — —	AFNOR NCK 20 D (Nimonic 263) (BS HR 10, HR 206)
<u>AIR</u>				
AIR 9165-011 (P.19)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bars and Forgings)	— —	AECMA Fe-PM35 AFNOR Z 20 CDNb ₁₁
AIR 9165-021 (P.21)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bars and Forgings)	—	AECMA Fe-PM38 AFNOR Z 10CKD10
AIR 9165-031 (P.23)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bar, Forgings, Sheet)	— —	AFNOR Z 6 CN 25
AIR 9165-041 (P.25)	3/73	Reglements AIR (French Aircraft Standard) for: Steel (Bar, Forgings, Sheet)	—	AFNOR Z 10 CNW 17

TABLE 19. (Continued)

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>AIR</u>				
AIR 9165-051 (P.27)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bars, Forgings, Sheet)	R30155 R30155	AFNOR Z12 CNKDW 20 (N-155)
AIR 9165-061 (P.29)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bars, Forgings, Sheet)	— —	AECMA Fe-PA93 HT AFNOR Z3 NCT 25
AIR 9165-071 (P.31)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant stainless steel (Bars)	K66286 K66286 K66286	AECMA Fe-PA92 HT AFNOR E-Z6 NCT 25 (A-286)
AIR 9165-081 (P.33)	3/73	Reglements AIR (French Aircraft Standard) for: Heat-resistant austenitic stainless steel (Bars, Forgings)	N09901 N09901	AFNOR Z8 NCDT 42 (Incoloy 901)
AIR 9165-091 (P.35)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	— — —	AECMA Ni-P91 HT AFNOR NC 20T (Nimonic 75)
AIR 9165-101 (P.37)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	N07080 N07080 N07080	AECMA Ni-P95 HT AFNOR NC 20 TA (Nimonic 80A)
AIR 9165-111 (P.39)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	N07001 N07001 N07001	AECMA Ni-P 101 HT AFNOR NC 20 K 14 (Waspaloy)
AIR 9165-121 (P.41)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	N07718 N07718	AFNOR NC 19Fe Nb (Inconel 718)
AIR 9165-131 (P.43)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	N06002 N06002 N06002	AECMA Ni-P 93 HT AFNOR NC 22 FeD (Hastelloy X)
AIR 9165-141 (P.45)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings)	N07500 N07500 N07500	AECMA Ni-P94 HT AFNOR NCK 19 DAT (Udimet 500)
AIR 9165-151 (P.47)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	— — —	AECMA Ni-P 105 HT AFNOR NCK 20 D (C-263)
AIR 9165-161 (P.49)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings, Sheet)	— — —	AECMA Ni-P96 HT AFNOR NCK 20 TA (Nimonic 93)
AIR 9165-171 (P.51)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings)	— —	AFNOR NK 18 CDAT (Udimet 700)

TABLE 19. (Continued)

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>AIR</u>				
AIR 9165-181 (P.53)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings)	— —	AFNOR NCK 18 TDA (Udimet 710)
AIR 9165-191 (P.55)	3/73	Reglements AIR (French Aircraft Standard) for: Nickel-base alloy (Bars, Forgings)	— — —	AECMA Ni-P 61-HT AFNOR NK 20 CDA (Nimonic 105)
AIR 9165-201 (P.57)	3/73	Reglements AIR (French Aircraft Standard) for: Cobalt-base alloy (Bars, Forgings, Sheet)	R30605 R30605 R30605	AECMA CO-P 92-HT AFNOR KC 20 WN (HS 25, L-605)
AIR 9165-211 (P.59)	3/73	Reglements AIR (French Aircraft Standard) for: Cobalt-base alloy (Bars, Sheet)	R30188 R30188	AFNOR KC N 22 W (Haynes alloy 188)

TABLE 20. CURRENT WEST GERMAN STANDARDS COVERING SUPERALLOYS

Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)		Date Mo/Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number	<u>German Aeronautical (Luftfahrt-Werkstoff) Number</u>					
1.4911	—	X8CrCoNiMo10 6	11/73	Heat-Resistant Cr-Co-Mo Hardenable Steel 0.1C-11Cr-6Co-0.8Mn,0.4Nb-0.4V -Bars, Rods, and Forging.		—	Fe-Pm 38 Z10 CKD 10 Thermon 4911 Vakamelt RNOD Co
1.4914	—	X18CrMoVNb12 1	11/73	Heat-Resistant Cr-Mo Hardenable Steel 0.15C-11Cr-0.7Mo-0.4Nb-0.4V Bars, Rods, and Forgings		—	Fe-Pm 36 Z 18 CDV Nb 11 RNOD
1.4924	—	—	12/56	Heat-Resistant Cr-Mo-V Hardenable Steel Castings 0.22C-11.5Cr-1.1Mo-0.6Ni-0.3V.		—	—
1.4930	—	—	11/76	Stainless Cr-Co Steel Castings 0.14C-13Cr-10Co-0.7Mo-Precision Castings		—	—
1.4934	1.4923	—	12/56	Heat-Resistant Non-Austenitic Cr-Mo-W-V Hardenable Steel 0.22C-11.5Cr-1.1Mo-0.5Ni-0.5W		—	X22CrMoV12 1 Vacuotherm 5-34 RNO MoV Turbotherm KW 20 MV BVT 130 V
1.4939	—	X12CrNiMo12	11/73	Heat-Resistant Cr-Ni-Mo Hardenable Steel 0.C-12Cr-2.5Ni-1.8Mo-3.3V Sheet and Strip		—	Jethete 152 Fe-Pm 37 prEN2277,2278, 2279,2280 Z 12 CND 12 AMS5046,5066 Vacuotherm 5-38 RNOD Ni

TABLE 20. (Continued)

Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)		Date Mo./Year		Title of Standard		Related UNS Number		Other Related International Alloy Designations	
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number										
1.4943	—	X4NiCrTi25 15		11/73		Heat-Resistant Precipitation-Hardenable Ni-Cr-Ti Steel 0.03C-25Ni-15Cr-1.8Ti-Sheet, Strip, Bars, and Plate.		—		Fe-Pa 93-HT prEN2173,2174, 2175 Z3 NCT 25 Z4 NCDT 20 ATVS 2 Discaloy A286Low Ti Vaccutherm 7-20	
1.4944	1.4980	X5NiCrTi26 15		11/73		Heat-Resistant Precipitation-Hardenable Ni-Cr-Ti Steel 0.05C-25Ni-15Cr-1.8Ti Sheet, Strip, Bars, and Plate.		K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286 K66286		A286 Fe-Pa 92-HT prEN2199,2171, 2172 Z06 NCT 25 Z6 NCT 25 DTD AMS5026,5076, 5525,5731,5732, 5734,5735,5736, 5737,5804,5805 ASTMA 453 Grade 660 ATVS Mo Vaccutherm 7-20 RGT 1	
1.4957	—	G-X15CrNiCo21 20 20		09/75		Heat-Resistant Precipitation-Hardenable Cr-Ni-Co Cast Alloy 0.15C-21Cr-20Ni-19Co-Precision Casting.		—		—	
1.4974	1.4971	X12CrCoNi21 20		09/75		Heat-Resistant Precipitation-Hardenable Cr-Ni-Co Steel 0.1C-21Cr-20Ni-19Co Sheet, Strip and Plate.		R30155 R30155 R30155		N 155 Multimet Fe-Pa 91-HT prEN2167,2168,	

TABLE 20. (Continued)

Werkstoff-Nr		Bezeichnung		Date Mo./Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number	nach DIN 17 006 German Standard Specification (DIN 17 006)					
1.4984	1.4981	X8CrNiMoNb16 16	12/56	Heat-Resistant Austenitic Cr-Ni-Mo Steel-Sheet.	R30155	2169,2170,2237	
2.4630	2.4951	NiCr 20 Ti	01/77	Heat-Resistant Nickel-Base Alloy 0.1C-20Cr-0.4Ti-Sheet and Strip.	R30155	2238,2239	
					R30155	Z12 CNKDW 20	
					R30155	ATG X	
					R30155	AMS 5531,5532,	
					R30155	5585,5768,5769,	
					R30155	5794,5795	
					R30155	Vaccutherm 8-11	
					R30155	ATS-105 G	
					R30155	RGT 32	
					—	—	
					—	Nimonic 75	
					—	Ni-P 91-HT	
					—	prEN2293,2294,	
					—	2302,2306,2307,	
					—	2308	
					—	NC 20 T	
					—	DTD 703 B	
					—	ATG R	
					—	Vaccutherm 9-11	
					—	RGT 0	
2.4631	2.4952	NiCr 20 TiAl	01/77	Heat-Resistant Nickel-Base Alloy-Precipitation-Hardenable 0.1C-20Cr-2.35Ti-1.4Al Sheet and Strip.	N07080	Nimonic 80A	
					N07080	Ni-P 95-HT	
					N07080	prEN2188,2189,	
					N07080	2190,2191	
					N07080	NC 20 TA	
					N07080	MH.07	
					N07080	DTD 736 B	
					N07080	BS 2HR 1	
					N07080	BS HR 201	

TABLE 20. (Continued)

Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)		Date Mo/Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Lufthart- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number						
2.4632	2.4969	NiCr20Co18Ti	01/77	Heat-Resistant Nickel-Base Alloy Precipitation- Hardenable 0.1C-20Cr-18Co-2.5Ti-1.5Al Sheet and Strip.	N07080 N07080 N07080 N07080 N07090 N07		

TABLE 20. (Continued)

Werkstoff-Nr		Bezeichnung nach DIN 17 006		Date Mo/Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number	Specification (DIN 17 006)					
2.4636	—	NiCoCr15MoAlTi		—	—	—	RGT 18 MH.05 ISO No. 12 P.E.R. 1 BS HR 5 BS HR 203 BS HR 403 BS 2HR 504
2.4650	—	—	—	12/73	Heat-Resistant Nickel-Base Alloy Precipitation- Hardenable 0.6C-20Co-20Cr-6Mo-2Ti-0.5Al- Sheet and Strip.	—	Nimonic 115 Ni-P 102-HT BS HR 4 NCK 15 ATD Nimonic 263 prEN2199,2200, 2201,2202,2203 NCK 20 D C-263 P.E.R. 263 ATG W0 RGT 131 ISO No. 16 BS HR 10 BS HR 206 Nimocast 263
2.4654	2.4054	—	—	12/73	Heat-Resistant Nickel-Base Alloy Precipitation- Hardenable 0.6C-19Cr-14Co-4Mo-3Ti-1.4Al-Rods, Bars, and Forgings.	N07001 N07001 N07001 N07001 N07001	Waspaloy Ni-P 101-HT prEN2193,2194, 2195 ATG W1

Werkstoff-Nr		Werkstoff		Bezeichnung		Date	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr	Werkstoff Nr nach DIN 17 007	German Material Number	German Standard Specification (DIN 17 006)	nach DIN 17 006	Mo/Year				
2.4668	—	—	NC19FeNb NiCr19NbMo	09/75	Heat-Resistant Nickel-Base Alloy Precipitation- Hardenable-0.05C-19Cr-18Fe-5Nb-3Mo-Sheet and Strip.	N06002 N06002 N06002 N06002 N07718 N07718 N07718 N07718 N07718 N07718 N07718 N07718 N07718	Nimonic PE 13 ISO No. 19 Pyrad 49D RGT 5 Inconel 718 Ni-P 100-HT AMS 5589,5590, 5596,5597,5662, 5663,5664,5832 NC 19 Fe Nb ATG C1 MH.06 RGT 601		
2.4670	—	—	G-NiCr13Al6MoNb	09/75	Heat-Resistant Nickel-Base Coating Alloy 0.05C- 12Cr-6Al-4.5Mo-2Nb Precision Castings	Nimocast 713 Ni-C 98-HT prEN2192 AMS 5391 Inconel 713 C NC 13 AD ATG S9 BS HC 203 MH.31			
2.4672	—	—	—	12/73	Heat-Resistant Nickel-Base Casting Alloy 0.06C- 20Co-20Cr-6Mo-2Ti-0.5Al-Precision Castings.	—	—		
2.4674	—	—	—	12/73	Heat-Resistant Nickel-Base Casting Alloy 0.2C-15Co- 10Cr-6Al-5Ti-3Mo-1V-Precision Castings	N13100 N13100 N13100 N13100	Ni-C 104-HT prEN2233 Nimocast PK2Y IN 100		

TABLE 20. (Continued)

Werkstoff-Nr		Werkstoff		Date Mo/Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)	Nr nach DIN 17 007 German Material Number					
1.4676	—	—	—	09/75	Heat-Resistant Nickel-Base Casting Alloy 0.15C-10Co-10W-9Cr-5.5Al-2.5Mo Precision Castings.	—	—
2.4682	—	—	—	01/77	Heat-Resistant Cobalt-Base Casting Alloy 0.5C-26Cr-11Ni-7.5W-Precision Castings.	—	Co-C 91-HT EN21 61
2.4856	1.4876	X10NiCrAlTi32 20	—	—	—	N08800	Incoloy 800
						N08800	25 NC 35 20
						N08800	Nical C
						N08800	AT3
						N08800	Pyrad 33
						N08800	NFC 2
						N08800	BS 3072-3076: NA 15
						N08800	ASTM B163
						N08800	ASTM B407
						N08800	ASTM B408
						N08800	ASTM B409
						N08800	ISO No. 8
2.4964	2.4967	CoCr20W15Ni	01/77	Heat-Resistant Cobalt-Base Alloy 0.1C-20Cr-15W-10Ni Sheet and Strip.	R30605 R30605	Co-P 92-HT L-605, HS 25	
—	1.4935	X20CrMoWV12 1	—	—	S42200 S42200 S42200	422 Vaccutherm 5-36 Sandvik HT9	
—	1.4977+ 1.4978	X40CoCrNi20 20+ X50CoCrNi20 20	—	—	R30590 R30590 R30590 R30590 R30590 R30590	S 590 AMS 5533,5770 Z42 CKNDNbw 20 Z42 CKNDW 20 ATG XX RGT 33	

TABLE 20. (Continued)

Werkstoff-Nr		Bezeichnung nach DIN 17 006 German Standard Specification (DIN 17 006)		Date Mo/Year	Title of Standard	Related UNS Number	Other Related International Alloy Designations
Luftfahrt- werkstoff-Nr (LN) German Aeronautical Material Number	Werkstoff Nr nach DIN 17 007 German Material Number						
—	2.4600	NiMo30	—	—	—	N10001 N10001 N10001 N10001	Hastelloy B ND 27 Fe V ARC 1628 ISO No. 23
—	2.4602	NiMo16Cr	—	—	—	N10002 N10002 N10002	Hastelloy C NC 17 DWY ARC 6015
—	2.4613	SNiCr21Fe18Mo	—	—	—	—	Hastelloy X
—	2.4858	NiCr21Mo	—	—	—	N08825	Incoloy 825
—	2.4856	NiCr22Mo9Nb	—	—	—	N08825 N08825 N08825	NC 21 Fe DU Nical K25 ISO No. 11
—	2.4973	NiCr19CoMo	—	—	—	N07041 N07041 N07041 N07041 N07041	Rene 41 NC 20 KDTA AMS 5545,5712, 5713,5800 RGT 15
—	2.4976	NiCr20Mo	—	—	—	— —	RGT 4 NC 20 DTA
—	2.4982	NiCr20CoMo	—	—	—	— —	RGT 13 NC 20 KDTA
—	2.4983	NiCr18Co	—	—	—	N07500 N07500 N07500 N07500 N07500 N07500	Udimet 500 Ni-P 94-HT ATG W2 AMS 5751,5763 NCK 18 DAT RGT 14

TABLE 21. CURRENT ISO (INTERNATIONAL ORGANIZATION FOR STANDARDIZATION)
STANDARDS COVERING SUPERALLOYS

Temporary Alloy Designation ^(a)	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
No. 5	12/78		N06601 N06601	Inconel alloy 601, Nical Z A
No. 8	12/78		N08800 N08800 N08800	Incoloy alloy 800 Nical C/, Pyrad 33, At 30, NCF 2
No. 9	12/78		N08810 N08810 N08810	Incoloy alloy 800H, Nical C2, Chromax, NCF 2H
No. 10	12/78		N08801 N08801	Incoloy alloy 801, Nical CT
No. 11	12/78		N08825 N08825	Incoloy alloy 825, Nical K 25
No. 12	12/78		— —	Nimonic 75, ATGT/P.E.R.1
No. 16	12/78		—	Nimonic 263, ATGWO/P.E.R. 263
No. 18	12/78		— —	Hastelloy B-2 ADNIC 265D
No. 19	12/78		N06002 N06602	Hastelloy X, ATGT/PYRAD 49D
No. 21	12/78		—	20 Cb 3, Nicromaz 20
No. 23	12/78		N10001	Hastelloy B, Ni Mo 30
No. 24	12/78		N10276 N10276	Hastelloy C-276, Ni Mo, 16Cr 15W
No. 25	12/78		— —	Hastelloy C-4, Ni Mo, 16Cr 16Ti
No. 26	12/78		—	Hastelloy G
No. 27	12/78		—	LC-Ni Cr, 15 Fe

(a) Temporary alloy designation numbers to be used until a neutral ISO designation has been developed. Source (5)

TABLE 22. CURRENT JAPANESE STANDARDS COVERING SUPERALLOYS

Standard Number	Date, Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
<u>JIS</u>				
G4901	77	Corrosion-Resisting and Heat-Resisting Super Alloy Bars	—	—
Alloy NCF2	77		N08801	Incoloy 800
Alloy NCF2H	77		N08810	Incoloy 800H
G4902	77	Corrosion-Resisting and Heat-Resisting Super Alloy Sheets and Plates	—	—
Alloy NCF2	77		N08801	Incoloy 800
Alloy NCF2H	77		N08810	Incoloy 800H
G4903	77	Seamless Metal-Chromium-Iron Alloy Pipes	—	—
G4904	77	Seamless Metal-Chromium-Iron Alloy Exchanger Tubes	—	—

TABLE 23. CURRENT ROYAL SWEDISH AIR BOARD SPECIFICATIONS^(a) COVERING SUPERALLOYS

Royal Swedish Air Board Specification Number	Year	Title of Specification	Related UNS Number	Common Alloy Name(s) or Designation(s)	AECMA (FR) Standard	Werkstoff (GY) LN, LW, or WDL	AFNOR (FR) Designation	AMS (US) Specification
MH.03				Nimonic PE13	Ni-P 93-HT	2.4665	NC 22 FeD	--
MH.04			N07750	Inconel X-750	--	--	NC 15 FeT(Nb)	5542
MH.05				Nimonic 75	Ni-P 91-HT	2.4630	NC 20 T	--
MH.06			N07718	Inconel 718	Ni-P 100-HT	2.4668	NC 19 FeNb	5589
MH.07			N07080	Nimonic 80A	Ni-P 95-HT	2.4631	NC 20TA	--
MH.10			N07090	Nimonic 90	Ni-P 96-HT	2.4632	NC 20 KTA _t	--
MH.14				Nimonic 105	Ni-P 61-HT	2.4634	NKCD 20 ATV	--
MH.16			N09901	Nimonic 901	Fe-PA 93-HT	2.4662	Z8 NC DT42	5660
MH.31			N07713	Nimocast 713	Ni-C 98-HT	2.4670	NC 13 AD	5391
MH.45			N07090	Nimonic 90	Ni-P 96-HT	2.4632	NC 20 KTA _t	--

(a) Also called Swedish Defense Material Administration.
(Försvarets Materielverk FMV - F) (F = Air).

TABLE 24. CURRENT UNION OF SOVIET SOCIALIST REPUBLICS STANDARD NUMBERS COVERING SOVIET SUPERALLOYS

GOST Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s) (a)
5632-72	0/72	High alloyed, wrought, corrosion,— heat,— and high temperature resistant steels and alloys. Grades		EI435 (KhN78T) (OKh21N78T) (Nimonic 75)
Ditto	Ditto	Ditto		EI437A (KhN77TYu) (Nimonic 80)
"	"	"		EI437B (KhN77TYuR)
"	"	"		EI442 (KhN70)
"	"	"	N07080	EI445R
"	"	"	N07080	(KhN67VMTYu)
"	"	"	N07080	(Nimonic 80A)
"	"	"		EI598 (KhN70VMTYuB)
"	"	"		EI599A (KhN60Yu)
"	"	"		EI602 (KhN75MbTYu)
"	"	"	N07750	EI607
"	"	"	N07750	(KhN80TBYu)
"	"	"	N07750	(Inconel X-750)
"	"	"		EI617 (KhN70VMTYu) (KhN70VMTYuB)
"	"	"		EI652 (KhN70Yu)
"	"	"		EI765 (KhN70VMYuT)
"	"	"		EI868 (KhN60V) (Kh20N60V20) (Kh15N60V15) (VZH90) (VZH98)

(a) The transliteration system is the one proposed by the United States Board on Geographic Names, details shown in Appendix A6. It has been used extensively by governmental, industrial and educational organizations.

TABLE 25. CURRENT UNITED KINGDOM STANDARDS COVERING SUPERALLOYS

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
Heat Resisting Alloy Castings				
BS HC 100	0/72	Inspection and testing procedure for iron, nickel, copper, cobalt, and refractory metal base alloy castings M Gr 4 (ISBN: 0 580 07344 0)		
BS HC 201	0/73	Nickel base chromium-aluminium-tungsten-molybdenum-niobium alloy castings (Cr 11.0, Al 6.0, W 3.5, Mo 3.0, Nb 2.0) M Gr 1 (ISBN: 0 580 07218 5)		
BS HC 202	0&73	Precipitation hardening nickel base chromium-niobium-molybdenum-iron-tungsten alloy castings (Cr 20.0, Nb 6.6, Mo 6.0, Fe 3.0, W 2.5) M Gr 1 (ISBN: 0 580 07178 2)		Nimocast PE10 (NC 20 Nb) (Ni-C 103-HT)
BS HC 203	0/73	Precipitation hardening nickel base chromium-aluminium-molybdenum-niobium alloy castings (Cr 13.0, Al 6.0, Mo 4.5, Nb 2.3) M Gr 1 (ISBN: 0 580 07208 8)	N07713 N07713 N07713 N07713 N07713 N07713	Nimocast 713 (NC 13 AD) (Ni-C 98-HT) (IN-713) (G-NiCr13Al6MoNb) (MH31) (2.4670 LN)
BS HC 204	0/73	Nickel base cobalt-chromium-aluminium-titanium-molybdenum alloy castings (Co 15.0, Cr 10.0, Al 5.5, Ti 4.8, Mo 3.0) M Gr 1 (ISBN: 0 580 07198 7)	N13100 N13100 N13100 N13100	Nimocast PK24 (IN 100) (NK 15 CAT) (Ni-C 104-HT)
BS HC 205	0/74	Precipitation hardening nickel base chromium-cobalt-molybdenum-titanium alloy castings (Cr 20, Co 20, Mo 6, Ti 2) M Gr 1 (ISBN: 0 580 08333 0)		
BS HC 206	0/75	Precipitation hardening nickel base chromium-cobalt-molybdenum-titanium alloy precision castings (Cr 20, Co 20, Mo 6, Ti 2) M Gr 1 (ISBN: 0 580 09815 0)		
Heat Resisting Wrought Alloys				
BS 2HR 1	0/73	Nickel-chromium-titanium-aluminium heat-resisting alloy billets, bars, forgings, and parts (nickel base, Cr 19.5, Ti 2.2 Al 1.4) Gr 2 Amendment AMD 1802, 9/75 (Gr 0) (ISBN: 0 580 07238 X)	N07080 N07080 N07080 N07080 N07080	Nimonic 80A (Ni-P 95-HT) (NC 20TA) (MH.07) (NiCr20TiAl) (2.4631 LN)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS 2HR 2	0/73	Nickel-chromium-cobalt-titanium-aluminium-heat-resisting alloy billets, bars, forgings and parts (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) M Gr 2 (ISBN: 0 580 07248 7)	N07090 N07090 N07090 N07090 N07090 N07090	Nimonic 90 (Ni-P 96-HT) (NC20KTA _t) (MH.10) (MH.45) (NiCr20Co18Ti) (2.4632 LN)
BS HR 3	0/72	Nickel-cobalt-chromium-molybdenum-aluminium-titanium heat-resisting alloy billets, bars, forgings, and parts (nickel base, Co 20, Cr 14.8, Mo 5, Al 4.7, Ti 1.2) M Gr 1 (SBN: 580 07091 3)*		Nimonic 105 (Ni-P 61-HT) (NKCD20KTAT _v) (MH.14) (NiCoCr15MoAlTi) (2.4634 LN)
BS HR 4	0/72	Nickel-chromium-cobalt-aluminium-molybdenum-titanium heat-resisting alloy billets, bars, forgings, and parts (nickel base, Cr 15, Co 14.2, Al 5, Mo 4, Ti 4) M Gr 1 Amendment AMD 1176, 5/73 (SBN: 580 07331 9) *		Nimonic 115 (Ni-P 102-HT) (NCK15ATD) (NiCoCr15MoAlTi) (2.4636 LN)
BS HR 5	0/72	Nickel-chromium-titanium heat-resisting alloy billets, bars, forgings, and parts (nickel base, Cr 19.5, Ti 0.4) Gr 1 (ISBN: 0 580 07917 4)		Nimonic 75 (Ni-P 91-HT) (NC20T) (MH.05) (NiCr20Ti) (2.4630 LN)
BS HR 6	0/72	Nickel-chromium-iron-molybdenum-cobalt-tungsten heat-resisting alloy billets, bars, forgings, and parts (nickel base, Cr 21.7, Fe 18.5, Mo 9, Co 1.5, W 0.6) M Gr 1 Amendment AMD 1803, 9/75 (Gr 0) (ISBN: 0 580 07027 1)		Nimonic PE13 (Ni-P 93-HT) (NC22FeD) (MH.03) (NiCr22Fe18Mo) (2.4665 LN)
BS HR 10	0/72	Nickel-cobalt-chromium-molybdenum-titanium-aluminium heat-resisting alloy billets, bars, forgings, and parts (nickel base, Co 20, Cr 20, Mo 5.9, Ti 2.1, Al 0.5) Gr 2 Amendment AMD 1804, 9/75 (Gr 0) (ISBN: 0 580 07007 7)		Nimonic 263 (Ni-P 105-HT) (NCK 20D)
BS HR 11	0/73	Nickel-iron-chromium-molybdenum-aluminium-titanium heat-resisting alloy billets, bars, forgings, and parts (Ni/Co 43.5, Cr 16.5, Mo 3.3, Al 1.2, Ti 1.2, Fe remainder) M Gr 2 (ISBN: 0 580 07900 7)		Nimonic PE16 (NW11AC) (X8NiCrMoTiAl 43 16)
BS HR 40	0/72	Cobalt-chromium-tungsten-nickel-manganese heat-resisting alloy billets, bars, and forgings (cobalt base, Cr 20, W 15, Ni 10, Mn 1.5) Gr 1 Amendment AMD 1805, 9/75 (Gr 0) (ISBN: 0 580 07486 2)		

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS HR 51	0/73	Heat-resisting alloy billets, bars, forgings, and parts (Ni 25.5, Cr 14.7, Ti 2, Mn 1.5, Mo 1.2, Si 0.7, V 0.3, Fe remainder) M GR 2 Amendment 1806, 9/75 (Gr 0) (ISBN: 0 580 07883 3)	K66286	(A-286)
BS HR 52	0/73	Heat-resisting alloy billets, bars, forgings, and parts (Ni 25.5, Cr 14.7, Ti 1.8, Mn 1.5, Mo 1.2, V 0.3, Fe remainder) M GR 2 Amendment AMD 1807, 9/75 (Gr 0) (ISBN: 0 580 07893 0)	K66286	(A-286)
BS HR 53	0/73	Nickel-iron-chromium-molybdenum-titanium heat-resisting alloy billets, bars, forgings, and parts (Ni/Co 42.5, Cr 12.5, Mo 5.8, Ti 3.0, Fe remainder) M Gr 2 Amendment AMD 1808, 9/75 (Gr 0) (ISBN: 0 580 07910 4)	N09901 N09901 N09901 N09901 N09901 N09901	Nimonic 901 (Fe-PA 99-HT) (Incoloy 901) (Z8 NC D) (MH.16) (NiCr15MoTi) (2.4662 LN)
BS 2HR 100	0/71	Inspection and testing procedure for aerospace material. Wrought heat resisting alloys M+1 Gr 8 Amendments AMD 1175, 5/73 (Gr 0); AMD 1668, 2/75 (Gr 3) (SBN: 580 06627 4) *		
BS 2HR 201	0/74	Nickel-chromium-cobalt-titanium-aluminium resisting alloy plate, sheet, and strip (nickel base, Cr 19.5, Ti 2.2, Al 1.4) M Gr 2 (ISBN: 0 580 08416 7)	N07080 N07080 N07080 N07080 N07080	Nimonic 80A (Ni-P 95-HT) (NC 20 TA) (MH.07) (NiCr20TiAl) (2.4631 LN)
BS HR 202	0/73	Nickel-chromium-cobalt-titanium-aluminium heat-resisting alloy sheet and strip (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) M Gr 2 (ISBN: 0 580 07258 4)	N07090 N07090 N07090 N07090 N07090 N07090	Nimonic 90 (Ni-P 96-HT) (NC 20 KTA) (MH.10) (MH.45) (NiCr20Co18Ti) (2.4632 LN)
BS HR 203	0/72	Nickel-chromium-titanium heat-resisting alloy plate, sheet, and strip (nickel base, Cr 19.5 Ti 0.4) M Gr 1 Amendment AMD 1332, 3/74 (Gr 0) (SBN: 580 06599 5) *		Nimonic 75 (Ni-P 91-HT) (NC 20 T) (MH.05) (NiCr20Ti) (2.4030 LN)
BS HR 204	0/72	Nickel-chromium-iron-molybdenum-cobalt-tungsten heat-resisting alloy plate, sheet, and strip (nickel base, Cr 22, Fe 18.5, Mo 9, Co 1.5, W 0.6) M Gr 2 Amendment AMD 1809, 9/75 (Gr 0) (SBN: 580 06999 0) *		Nimonic PE13 (Ni-P 93-HT) (NC 22 FeD) (MH.03) (NiCr22Fe18Mo) (2.4665 LN)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS HR 206	0/73	Nickel-cobalt-chromium-molybdenum-titanium-aluminium heat-resisting alloy plate, sheet, and strip (nickel base, Co 20, Cr 20, Mo 5.9, Ti 2.7, Al 0.5) M Gr 2 Amendment AMD 1810, 9/75 (Gr 0) (ISBN: 0 580 07510 9)		Nimonic 263 (Ni-P 105-HT) (NCK 20 D)
BS HR 207	0/73	Nickel-iron-chromium-molybdenum-aluminium-titanium heat-resisting alloy plate, sheet, and strip (Ni/Co 43.5, Cr 16.5, Mo 3.3, Al 1.2, Ti 1.2, Fe remainder) M Gr 2 (ISBN: 0 580 07520 6)		Nimonic PE16 (NW 11 AC) (X8 NiCrMoTi Al 43 16)
BS HR 240	0/72	Cobalt-chromium-tungsten-nickel-manganese heat-resisting alloy plate, sheet, and strip (cobalt base, Cr 20, W 15, Ni 10, Mn 1.5) Gr 1 Amendment AMD 1811, 9/75 (Gr 0) (ISBN: 0 580 07067 0)		
BS HR 251	0/74	Heat-resisting alloy plate, sheet, and strip (Ni 25.5, Cr 14.7, Ti 1.8, Mn 1.5, Mo 1.2, V 0.3, Fe remainder) Gr 2 Amendment AMD 1812, (675) (Gr 0) (ISBN: 0 580 08426 4)	K66286	(A-286)
8S2HR 401	0/73	Nickel-chromium-titanium-aluminium heat-resisting alloy cold worked and softened seamless tubes (nickel base, Cr 19.5, Ti 2.2, Al 1.4) M Gr 2 (ISBN: 0 580 07268 1)	N07080 N07080 N07080 N07080 N07080	Nimonic 80A (Ni-P 95-HT) (NC 20 TA) (MH.07) (2.4631 LN)
BS HR 402	0/73	Nickel-chromium-cobalt-titanium-aluminium heat-resisting alloy cold worked and softened seamless tubes (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) M Gr 2 (ISBN: 0 580 07873 6)	N07090 N07090 N07090 N07090 N07090 N07090	Nimonic 90 (Ni-P 96-HT) (NC 20 KTA) (MH.10) (MH.45) (NiCr20Co18Ti)
BS HR 403	0/73	Nickel-chromium-titanium heat-resisting alloy cold worked and softened seamless tubes (nickel base, Cr 19.5, Ti 0.4) M Gr 1 Amendment AMD 1425, 5/74 (ISBN: 0 580 07530 3)		Nimonic 75 (Ni-P 91-HT) (NC 20 T) (MH.05) (NiCr20Ti) (2.4630 LN)
8S HR 404	0/73	Nickel-cobalt-chromium-molybdenum-titanium-aluminium heat-resisting alloy cold worked solution treated seamless tubes (nickel base, Co 20, Cr 20, Mo 5.9, Ti 2.1, Al 0.5) Gr 2 Amendment AMD 1813, 9/75 (Gr 0) (ISBN: 0 580 07500 1)	N09901 N09901 N09901 N09901 N09901	Nimonic 901 (Fe-PA 99-HT) (Incoloy 901) (Z8 NC DT42) (MH.16) (NiCr15MoTi) (2.4602 LN)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS 2HR 501	0/73	Nickel-chromium-cobalt-titanium-aluminium heat-resisting alloy cold drawn wire for springs (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) Gr 2 Amendment AMD 1814, 9/75 (Gr 0) (ISBN: 0 580 07278 9)	N07090	Nimonic 90
			N07090	(Ni-P 96-HT)
			N07090	(NC 20 KTA _t)
			N07090	(MH.10)
			N07090	(MH.45)
			N07090	(NiCr20Co18Ti)
BS 2HR 502	0/73	Nickel-chromium-cobalt-titanium-aluminium heat-resisting alloy cold drawn and solution heat treated wire for springs (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) Gr 2 Amendment AMD 1815, 9/75 (ISBN: 0 580 09329 8)	N07090	Nimonic 90
			N07090	(Ni-P 96-HT)
			N07090	(NC 20 KTA _t)
			N07090	(MH.10)
			N07090	(MH.45)
			N07090	(NiCr20 18Ti)
BS 2HR 503	0/73	Nickel-chromium-cobalt-titanium-aluminium heat-resisting alloy wire for thread inserts (nickel base, Cr 19.5, Co 18.0, Ti 2.5, Al 1.5) M Gr 2 Amendment AMD 1816, 9/75 (ISBN: 0 580 07288 6)	N07090	Nimonic 90
			N07090	(Ni-P 96-HT)
			N07090	(NC 20 KTA _t)
			N07090	(MH.10)
			N07090	(MH.45)
			N07090	(NiCr20 18Ti)
BS 2HR 504	0/73	Nickel-chromium-titanium heat-resisting alloy bar, wire, and rivets (nickel base, Cr 19.5, Ti 0.4) M Gr 1 (ISBN: 0 580 07298 3)	N07090	(2.4632 LN)
				Nimonic 75
				(Ni-P 91-HT)
				(NCr20T)
				(MH.0.5)
				(NiCr20Ti)
BS 2HR 601	0/75	Nickel-chromium-titanium-aluminium heat-resisting alloy bar and wire for the manufacture of fasteners (maximum diameter or minor sectional dimensions 25 mm) (nickel base, Cr 19.5, Ti 2.2, Al 1.4) M Gr 2 (ISBN: 0 580 08832 4)	N07080	(2.4630 LN)
			N07080	Nimonic 80A
			N07080	(Ni-P 95-HT)
			N07080	(NC 20 TA)
			N07080	(MH.07)
			N07080	(NiCr20TiAl)
BS HR 650	0/72	High expansion heat-resisting steel bar and wire for the manufacture of bolts, nuts, studs, set screws and nuts (Ni 25.5, Cr 15, Ti 2, Mn 1.5, Mo 1.25, Si 0.7, V 0.3) (limiting ruling section 20 mm) M Gr 2 Amendment AMD 1817, 9/75 (Gr 0) (SBN: 580 06899 4)*	N07080	(2.4631 LN)
DTD 5037				Nimonic PE11 (Z8 NC D38) (X8NiCrMoTi 38 18)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
DTD 5057				Nimonic PK33 (NC 19 KDu/v) (NiCr18Co14 MoTiAl)
BS 3531	0/68	Materials for Metal Surgical Implants—Wrought Austenitic Stainless Steel, Cast Cobalt — Chromium Alloy, Wrought Cobalt-Chromium Alloy, and Wrought Titanium		(HS 21) (AMS 5385) (Alivium) (Vitallium)
<u>Investment Casting Alloys</u>				
BS 3146 Part 2 ANC 9	5/25	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels Nickel and Cobalt Base Alloys. Type ANC 9: Nickel base—20% chromium 2.5% titanium 1.2% aluminum castings		ANC9
BS 3146 Part 2 ANC 10	5/25	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels Nickel and Cobalt Base Alloys. Type ANC 10: Nickel base—20% chromium 16.5% cobalt 2.4% titanium 1.3% aluminum castings		ANC 10
BS 3146 Part 2 ANC 11	5/75	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels, Nickel and Cobalt Base alloys. Type ANC 11: Nickel base—21% chromium 10% cobalt 10% molybdenum castings		ANC 11
BS 3146 Part 2 ANC 13	5/75	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels, Nickel and Cobalt Base Alloys. Type ANC 13: Cobalt base—26% chromium 10% nickel 7% tungsten castings		ANC 13
BS 3146 Part 2 ANC 14	5/75	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels, Nickel and Cobalt Base Alloys. Type ANC 14: Cobalt base—27% chromium 5.5% molybdenum 2.7% nickel castings		ANC 14
BS 3146 Part 2 ANC 15	5/75	Specification for Investment Castings in Metals; Corrosion and Heat Resisting Steels, Nickel and Cobalt Base Alloys. Type ANC 15: Nickel base—28% molybdenum castings		ANC 15

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS 3146 Part 2 ANC 16	5/75	Specification for Investment Castings in Metals: Corrosion and Heat Resisting Steels, Nickel and Cobalt Base Alloys. Type ANC 16: Nickel base—17% molybdenum 16.5% chromium 4.5% tungsten castings <u>Vacuum Melted Investment Casting Alloys</u>		ANC 16
BS 3146 Part 3 VMA2	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA2: Nickel base—11% tungsten 6% aluminum 5.7% chromium 2% molybdenum vacuum melted castings		VMA2
BS 3146 Part 3 VMA3	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA3: Nickel base—21% chromium 10% molybdenum 2.5% titanium 1% aluminum vacuum melted castings		VMA3 ANC 12 (C 130)
BS 3146 Part 3 VMA4	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA4: Cobalt base—23.5% chromium 10% nickel 7% tungsten 3.5% tantalum vacuum melted castings		VMA4 (MM 509)
BS 3146 Part 3 VMA5	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA5: Nickel base—20% chromium 20% cobalt 6% molybdenum 2% titanium vacuum melted castings		VMA5 (C 263) (NCK 20D)
BS 3146 Part 3 VMA6 A,B, and C	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA6: Nickel base—13% chromium 6% aluminum 4% molybdenum 2% niobium 1% titanium vacuum melted castings	N07713 N07713 N07713 N07713 N07713	VMA6 (IN 713C) (AMS 5391) (NC 13 AD) (IN 713 LC)
BS 3146 Part 3 VMA7 A and B	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA7: Nickel base—15% chromium 10% cobalt 8% molybdenum 4.2% aluminum 2% titanium vacuum melted castings		VMA7 (GMR 235) (GMR 235D)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS 3146 Part 3 VMA8	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA8: Nickel base—15% chromium 10% cobalt 8% molybdenum 4.2% aluminium 3.6% titanium vacuum melted castings		VMA8 (C-1023)
BS 3146 Part 3 VMA9	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA9: Nickel base—18% chromium 18% cobalt 4% molybdenum 3% aluminium 3% titanium vacuum melted castings	N07500 N07500 N07500 N07500 N07500	Nimonic 105 VMA9 (Udimet 500) (AMS 5384) (NK 20 C 15 DAT)
BS 3146 Part 3 VMA10	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA10: Nickel base—15% cobalt 14.5% chromium 4.5% aluminium 4% molybdenum 3.5% titanium vacuum melted castings		Nimonic 115 VMA10 (Udimet 700) (NCK 15 ATO)
BS 3146 Part 3 VMA11	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA11: Nickel base—22% cobalt 15% chromium 4.5% molybdenum 4.4% aluminium 2.4% titanium vacuum melted castings		VMA11 (SEL 1) (NK 26 CDAT)
BS 3146 Part 3 VMA12	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA12: Nickel base—15% cobalt 9.5% chromium 5.5% aluminium 4.7% titanium 3% molybdenum 1% vanadium vacuum melted castings	N13100 N13100 N13100 N13100 N13100	VMA12 (IN 100) (NK 15 CAT) (AMS 5387) (NK 15 CAT)
BS 3146 Part 3 VMA13	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA13: Nickel base—19% chromium 18.7% iron 5% niobium 3% molybdenum 0.9% titanium 0.6% aluminium vacuum melted castings		VMA13 (IN 218) (NC 19 FeNi3) (AMS 5383) (NC 19 Fe Nb)
BS 3146 Part 3 VMA14	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA14: Nickel base—10% cobalt 10% tungsten 9% chromium 5.5% aluminium 2.5% molybdenum 1.5% titanium 1.5% tantalum vacuum melted castings		VMA14 (MM 246)

TABLE 25. (Continued)

Standard Number	Date Mo/Yr	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
BS 3146 Part 3 VMA15	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA15: Nickel base—10% cobalt 10% tungsten 9% chromium 5.5% aluminium 2.5% tantalum 1.5% hafnium 1.5% titanium vacuum melted castings		VMA15 (MM 002)
BS 3146 Part 3 VMA16	9/76	Specification for Investment Casting in Metal: Vacuum Melted Alloys. Type VMA16: Nickel base—16% chromium 8.5% cobalt 3.5% titanium 2.5% tungsten 1.75% tantalum 1% niobium vacuum melted castings		VMA16 (IN 738) (IN 738 LC)

* The abbreviations 'SBN' and 'ISBN' with British standard titles mean 'Standard Book Number' and 'International Standard Book Number', respectively. Until 1972, only UK publishers used this numbering system. In 1972, the system was extended to international publishers and 'SBN' became 'ISBN' and the UK prefix 'O' was added. The system is also used extensively in the book trade and by libraries, education authorities, etc.

**TABLE 26. CURRENT US ADVANCED MATERIAL INFORMATION (AMI)*
DATA SHEETS COVERING SUPERALLOY MATERIALS**

ADVANCED MATERIAL INFORMATION are developed by the SAE Aerospace Materials Division, aimed at giving advanced data on new or novel materials. The following introductory paragraph appears on all published Advanced Material Information.

"This data sheet details a material currently being developed for use by industry. It has been released by the SAE Aerospace Materials Division for informational purposes only. The issuance of an AMS or AMD on this material depends upon future development, experience, and usage of the material. User information and data on this alloy should be submitted to the Technical Division, SAE."

AMI 11	TD NiCr Sheet, Nickel Base—21Cr 2.4ThO ₂
AMI 13	Multiphase MP35N—35Ni 35Co 20Cr 10Mo
AMI 14	Steel Bar and Sheet—15.5Cr 1.85Ni 13.0Co 4.5Mo 0.15Cb 0.03N ₂ (0.05-0.09C) Precipitation Hardenable
AMI 15	Alloy Corrosion and Heat Resistant, Nickel Base—0.07C 18Cr 15Co 3.0Mo 1.5W 5.0Ti 2.5Al 0.02B
AMI 16	Pyromet 860—0.05C 12.6Cr 43Ni 6.0Mo 4.0Co 3.0Ti 1.25Al 0.01B—Balance Fe (About 28Fe)
AMI 20	Corrosion Resistant Steel Billets, Bars, Wire, Forgings, and Strip—26Cr 6Ni 0.2Ti (0.05 max C)
AMI 21	Unitemp AF-2-1DA—0.35C 12Cr 10Co 6.0W 3.0Mo 1.5Ta 4.6Al 3.0Ti 0.015B 0.10Zr Bal Ni
AMI 22	TRW-NASA VI A—Nickel Base-0.13C 6.1Cr 7.5Co 2.0Mo 5.8W 1.0Ti 5.4Al 0.5Re 0.43Hf 0.13Zr 0.02B 9.0Ta 0.5Cb
AMI 23	MAR-M Alloy 421—Nickel Base-0.15C 15.5Cr 10.0Co 1.75Mo 3.5W 1.75Cb 1.75Ti 4.25Al 0.05Zr 0.015B

*AMI's are available upon request from SAE Headquarters.

**TABLE 27. CURRENT US AEROSPACE MATERIALS SPECIFICATIONS (AMS)
COVERING SUPERALLOYS**

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5354C	6/75	Steel castings, invest., mod. heat resistant, Fe base 13Cr 2Ni 3W	S41800	Greek Ascoloy
5365B	1/76	Steel castings, sand, corrosion, & heat resistant, Fe base 24.5Cr 20.5Ni	— —	HK40
5366B	1/76	Steel castings, investment	— —	HK40
5369B	1/77	Steel castings, sand, corrosion & heat resistant, 20Cr 9Ni 1.4Mo 1.4W (Cb+Ta) 0.32Ti	K63198	19-9DL
5375C	1/77	Alloy 0.30 castings, prec. invest., 65.5Co 25Cr 1.8Ni 5W	R30023	Stellite 23
5376C	1/77	Alloy castings, prec. invest. 30Fe 21Cr 20Ni 20Co 3Mo 2.5W 1(Cb+Ta) 0.15N	R30155	N-155
5378C	1/77	Alloy castings, prec. invest., 35Co 25Cr 32Ni 5.5Mo	R30027	Stellite 27
5380C	7/56	Alloy castings, prec. invest., Co base 26Cr 15Ni 6Mo	R30030	Stellite 30
5382E	5/69	Alloy castings, invest., Co base 25.5Cr 10.5Ni 7.5W	R30031	Stellite 31 (X-40)
5383A	1/77	Alloy castings, invest., 32.5Ni base 19Cr 3.0Mo 5.1(Cb+Ta) 0.90Ti 0.60Al 18Fe, vac. melted, vac. cast	N07718	Inconel 718C
5384A	1/77	Alloy castings, invest., 53Ni base 18Cr 18Co 3Ti 3Al 4Mo 2Fe 0.006B, vacuum melted & cast Sol. & Precip. treated	N07500	Udimet 500
5385D	5/69	Alloy castings, invest., Co base 27Cr 2.8Ni 5.5Mo	R30021	Stellite 21
5388C	5/69	Alloy castings, invest., Ni base 16.5Cr 17Mo 4.5W 6.8Fe 0.40V	N10002	Hastelloy C
5389A	6/51	Alloy castings, sand, Ni base 17Mo 15Cr 6Fe 5W	N10002	Hastelloy C
5390A	1/77	Alloy castings, prec. invest., 45.5Ni base 22Cr 1.5Co 9Mo 0.6W 18.5Fe	N06002	Hastelloy X

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5391B	1/76	Alloy castings, invest., 73Ni 13Cr 4.5Mo 0.75Ti 6Al 2.3(Cb+Ta) 0.10Zr 0.010B, vac. melted	N07713	Alloy 713C, Nimocast 713
5396A	1/77	Alloy castings, invest., 61.5Ni base 28Mo 5Fe 0.4V	N10001	Hastelloy B
5397A	1/77	Alloy castings, invest., 50Ni base 10Cr 15Co 3Mo 4.8Ti 5.5Al 0.015B .95V 0.6Zn, vac. melted and vac. cast	N13100	IN100, Nimocast PK24
5399A	1/77	Alloy castings, invest., 52Ni base 19Cr 11Co 9.8Mo 3.2Ti 1.6Al 0.006B, vac. melted and vac. cast, sol. treated	N07041	R��n�� 41
5508B	5/73	Alloy sheet, strip, and plate 13Cr 2.0Ni 3.0W	S41800	Greek Ascoloy
5509	1/60	Alloy plate, sheet, and strip 15Cr 45Ni 4W 4Mo 3Ti 1Al, consumable electrode vac. melted	K66979	D-979
5525C	11/68	Steel plate, sheet, and strip 15Cr 26Ni 1.3Mo 2.1Ti 0.3V	K66286	A-286
5526E	1/78	Steel plate, sheet, and strip 19.5Cr 9Ni 1.4Mo 1.4W 0.42(Cb+Ta) 0.2Ti	K63198	19-9DL
5527A	11/54	Steel plate, sheet, and strip 20Cr 9Ni 1.4Mo 1.4W 0.4(Ca+Ta) 0.2Ti, 125,000TS, hot rolled and stress relieved	K63198	19-9DL
5530D	12/74	Alloy sheet, strip, and plate 58Ni 15.5Cr 16Mo 3.8W 5.5Fe	N10002	Hastelloy C
5531	2/53	Alloy sheet, Fe base 20Cr 20Ni 20Co 3Mo 2W 0.7(Cb+Ta)	R30155	N-155 mod.
5532C	1/77	Alloy sheet, Fe base 21 Cr 20Ni 20Co 3Mo 25W 1(Cb+Ta) 0.15W	R30155	N-155
5533A	6/50	Alloy plate, sheet, and strip, Fe base 20Cr 20Ni 20Co 4Mo 4W 4Cb	R30590	S-590
5534A	6/50	Alloy plate, sheet, and strip, Co base 20Cr 20Ni 4Mo 4W 4Cb	R30816	S-816

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5536G	5/70	Alloy plate, sheet, and strip, Ni base 22Cr 1.50Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
5537C	4/67	Alloy sheet, Co base 20Cr 10Ni 15W	R30605	L-605, WF-11, HS 25
5538B	1/78	Steel sheet, strip, and plate 19.5Cr 9.5Ni 1.6Mo 1.4W 0.58Ti	K63199	19-9DX
5539	12/53	Steel plate, sheet, and strip 20Cr 9Ni 1.6Mo 1.4W Ti, hot rolled & stress relieved, 125,000TS	K63199	19-9DX
5540H	5/70	Alloy plate, sheet, and strip Ni base 15.5Cr 8.0Fe	N06600	Inconel 600
5541B	12/73	Alloy sheet and strip, Ni base 15.5Cr 2.4Ti 0.70Al 7Fe	— —	Inconel 722
5542H	6/74	Alloy sheet, strip, and plate Ni base 15.5Cr 2.5Ti 0.95(Cb+Ta) 0.7Al 7.0Fe	N07750	X-750
5543	6/60	Steel plate, sheet, and strip 13.5 Cr 26Ni 1.75Mo 3Ti, vac. melted, sol. treated	K66545	W-545
5544C	1/78	Alloy plate, sheet, and strip 57Ni base 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al 0.05Zr 0.006B, cons. elect. or vac. induct., melted, annealed	N07001	Waspaloy, Nimonic PK50
5545	1/61	Alloy plate, sheet, and strip, Ni base 19Cr 11Co 10Mo 3Ti 1.5Al, vac. melted, sol. heat treated	N07041	R��n�� 41
5550B	6/74	Alloy sheet and strip, Ni base 15.5Cr 0.62Ti 3.25Al	N07702	Inconel 702
5551	6/60	Alloy sheet and strip, Ni base 19Cr 10Co 10Mo 1Al 2.5Ti, vac. melted, sol. heat treated	N07252	M-252
5552B	1/76	Alloy sheet, strip, and plate 46Fe 32Ni 20.5Cr 1.1Ti	N08801	Incoloy, 801
5561	— —	Tubing, welded, and drawn 9.0Mn 20Cr 6.5Ni 0.28Ti, high pressure hydraulic	S21900	21-6-9

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5579	7/61	Steel tubing, welded 20Cr 9Ni 1.4Mo 1.4W 0.4(Cb+Ta) 0.2Ti, thin wall	K63198	19-9DL
5580E	11/69	Alloy tubing, seamless—Ni base 15.5Cr 8.0Fe, annealed	N06600	Inconel 600
5582	6/59	Alloy tubing, seamless—Ni base 15.5Cr 7Fe 2.5Ti 1(Cb+Ta) 0.7 Al	N07750	X-750
5585B	1/78	Alloy tubing, welded—32Fe 21Cr 20Ni 20Co 3Mo 2W 1(Cb+Ta) 0.15N	R30155	N-155
5586B	1/78	Alloy tubing, welded—57Ni base 19.5Cr 13.5Co 4.3Mo 2.9Ti 1.4Al, Annealed, Cons. Elect. or Vac. Induct. Melted	N07001	Waspaloy, Nimonic PK50
5587B	11/68	Alloy tubing, seamless—Ni base 22Cr 1.5Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
5588B	11/68	Alloy tubing, welded- and drawn—Ni base 22Cr 1.5Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
5589	9/66	Alloy tubing, seamless—Ni base 19Cr 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elect. or vac. induct. melted, 1750 F sol. treated	N07718	Inconel 718
5590	9/66	Alloy tubing, seamless—Ni base 19Cr 3.0Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elec. or vac. induct. melted, 1950 F sol. treated	N07718	Inconel 718
5592	7/63	Steel plate, sheet, and strip 18.5Cr 35Ni 1.15Si	N06330	RA-330
5593B	12/74	Alloy sheet, strip, and plate 45.5Ni 25.5Cr 3.2Co 3.2Mo 3.2W 18.5Fe	N06333	RA-333
5595B	1/78	Steel plate, sheet, and strip 9.0Mn 20Cr 6.5Ni 0.27N	S21904	21-6-9 C
5596C	11/68	Alloy plate, sheet, and strip Ni base 19Cr 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50 Al, cons. elect. or vac. induct. melted, sol. heat treated	N07718	Inconel 718

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5597A	11/67	Alloy plate, sheet, and strip Ni base 19Cr 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elect. or vac. induct. melted, 1950 F sol. treated	N07718	Inconel 718
5598	9/65	Alloy plate, sheet, and strip, Ni base 15.5Cr 0.95(Cb+Ta) 2.6Ti 0.70Al 7.0Fe, cons. elect. or vac. induct. melted	N07750	Inconel X-750
5599B	1/78	Alloy plate, sheet, and strip, 62Ni base 21.5Cr 9.0Mo 3.7(Cb+Ta)	N06625	Inconel 625
5605	11/71	Alloy sheet, strip, and plate, Ni base 16Cr 37Fe 2.9Cb 1.8Ti cons. elect. or vac. induct. melted, 1750 F sol. heat treated	N09706	Inconel 706
5606	11/71	Alloy sheet, strip, and plate Ni base 16Cr 37Fe 2.9Cb 1.8Ti, cons. elect. or vac. induct. melted, 1750 F sol. heat treated	N09706	Inconel 706
5607	5/71	Alloy sheet, strip, and plate Ni base 7.0Cr 16.5Mo	N10003	Hastelloy N
5608	5/71	Alloy sheet, strip, and plate Co base 22Cr 22Ni 14.5W 0.07La	R30188	Haynes 188
5616F	7/76	Steel bars, forgings, mech. tubing and rings 13Cr 2.0Ni 3.0W	S41800	Greek Ascology
5633B	12/74	Alloy bars and forgings, 38Fe 13.3Cr 38Ni 5.5Mo 0.85Cb 2.5Ti 1.6Al 0.009B, sol. heat treated	N09027	CG27
5634A	12/74	Alloy bars and forgings, 38Fe base 13.3Cr 38Ni 5.5Mo 0.85Cb 2.5Ti 1.6Al, sol. and precip. heat treated	N09027	CG27
5655A	1/77	Steel bars and forgings 12.5Cr 0.75Ni 1Mo 1W 0.24V	S42200	422
5656	11/68	Steel bars, forgings, and rings 9.0Mn 20Cr 6.5Ni 0.27N	S21904	21-6-9 LC
5660E	5/71	Alloy bars and forgings, Ni base 12.5 Cr 6.0 Mo 2.6Ti 34Fe, cons. elect. or vac. induct. melted	N09901	Incoloy 901, Nimonic 901

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5661B	11/72	Alloy bars and forgings, Ni base 12.5Cr 5.8Mo 2.9Ti 34Fe, cons. elect. or vac. induct. melted	N09901	Inconel 901 Mod., Nimonic 901
5662C	5/72	Alloy bars, forgings, and rings, Ni base 19Cr 19Fe 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elect. or vac. induct. melted, 1750 F, sol. heat treated	N07718	Inconel 718
5663C	5/72	Alloy bars, forgings, and rings, Ni base 19Cr 19Fe 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, 1750 F sol. & precip. heat treated, cons. elect. or vac. induct. melted	N07718	Inconel 718
5664A	11/67	Alloy bars, forgings, and rings, Ni base 19Cr 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elect. or vac. induct. melted, 1950 F. sol treated	N07718	Inconel 718
5666A	6/74	Alloy bars, forgings, and rings, Ni base 21.5Cr 9.0Mo 3.65(Cb+Ta)	N06625	Inconel 625
5667G	5/72	Alloy bars, forgings, and rings, Ni base 15.5Cr 7Fe 2.5Ti 1(Cb+Ta) 0.7Al	N07750	Inconel X-750
5668E	11/72	Alloy bars, forgings, and rings, Ni base 15.5Cr 7Fe 2.5Ti 1(Cb+Ta) 0.7Al, 2100 F sol. & precip. heat treated	N07750	Inconel X-750
5669	9/65	Alloy bars, Ni base 15.5Cr 0.95 (Cb+Ta) 2.5Ti 0.70Al 7.0Fe cons. elect. or vac. induct. melted	N07750	Inconel X-750
5670	5/69	Alloy bars, forgings, and rings, Ni base 15.5Cr 0.95(Cb+Ta) 2.5Ti 0.70Al 7.0Fe	N07750	Inconel X-750
5671C	1/78	Alloy bars, forgings, and rings, 72Ni base 15.5Cr 0.95(Cb+Ta) 2.5Ti 0.70Al 7.0Fe, cons. elect. or vac. induct. melted, 1800 F sol. heat treated	N07750	Inconel X-750

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5698C	1/77	Alloy wire, 72Ni base 15.5Cr 7Fe 2.5Ti 0.95(Cb+Ta) 0.7Al, No. 1 temper	N07750	X-750
5699B	1/63	Alloy wire, Ni base 15.5Cr 7Fe 2.3Ti 1(Cb+Ta) 0.7Al, spring temper	N07750	X-750
5701	11/71	Alloy bars, forgings, and rings, Ni base 16Cr 37Fe 2.9Cb 1.8Ti, cons. elect. or vac. induct. melted, 1800 F sol. heat treated	N09706	Inconel 706
5702	11/71	Alloy bars, forgings, and rings, Ni base 16Cr 37Fe 2.9Cb 1.8Ti, cons. elect. or vac. induct. melted, 1750 F sol. heat treated	N09706	Inconel 706
5703	11/71	Alloy bars, forgings, and rings, Ni base 16Cr 37Fe 2.9Cb 1.8Ti, cons. elect. or vac. induct. melted, 1750 F sol., stabil., & precip. heat treated	N09706	Inconel 706
5704B	1/76	Alloy forgings, 5.7Ni 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al 0.05Zr, cons. elect. or vac. induct. melted, 1825-1900 F sol., stabil., & precip. heat treated	N07001	Waspaloy, Nimonic PK50
5706E	1/76	Alloy bars, forgings, and rings 5.7Ni 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al, con. elect. or vac. induct. melted, 1825-1900 F sol., heat treated	N07001	Waspaloy, Nimonic PK50
5707E	12/74	Alloy bars, forgings, and rings, 19.5Cr 13.5Co 4.3 Mo 3.0Ti 1.4Al 5.8Ni, cons. elect. or vac. induct. melted, 1825-1900 F sol., stabil., & precip. heat treated	N07001	Waspaloy, Nimonic PK50
5708C	12/73	Alloy bars and forgings, Ni base 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al, cons. elect. or vac. induct. melted, 1975 F sol. heat treated	N07001	Waspaloy, Nimonic PK50

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5709C	6/74	Alloy bars and forgings, Ni base 19.5Cr 13.5Co 4.3Mo 3.0Ti 1.4Al, cons. elect. or vac. induct. melted, 1975 F sol., stabil., & precip. heat treated	N07001	Waspaloy, Nimonic PK50
5712C	1/77	Alloy bars, forgings, and rings, Ni base 19Cr 11Co 10Mo 0.006B 3Ti 1.5Al vac. melted, sol treated	N07041	R��n�� 41
5713C	1/77	Alloy bars, forgings, and rings, Ni base 19Cr 11Co 10Mo 3Ti 1.5Al, vac. melted, sol. & precip. treated	N07041	R��n�� 41
5714	11/69	Alloy bars, forgings, and rings, Ni base 15.5Cr 2.5Ti 0.70Al 7.0Fe	— —	Inconel 722
5715	5/72	Alloy bars, forgings, and rings, Ni base 23Cr 14Fe 1.35Al	N06601	Inconel 601
5716A	12/73	Alloy bars, forgings, and rings, 35.5Ni 18.5Cr 1.1Si	N08830	RA-330
5717C	12/74	Alloy bars, forgings, and rings, 45.5Ni 25.5Cr 3.2Co 3.2Mo 3.2W 18.5Fe	N06333	RA-333
5718	11/70	Steel bars, forgings, tubing, and rings, 11.8Cr 2.5Ni 1.8Mo 0.33V (0.08-0.15C)	K64152	Jethete M-152
5719	11/70	Steel bars, forgings, tubing, and rings, 11.8Cr 2.5Ni 1.8Mo 0.33V (0.08-0.15C) premium quality, vac. cons. elect. melted	K64152	Jethete M-152
5720A	2/52	Steel bars (up to 1.5 incl), corr. & heat resist., 20Cr 9Ni 1.4Mo 1.4W (Cb+Ta) Ti	K63198	19-9DL
5721B	2/52	Steel bars (up to 1 incl), 20 Cr 9Ni 1.4Mo 1.4W (Cb+Ta) Ti	K63198	19-9DL
5722C	11/68	Steel bars, forgings, and rings, 19.5Cr 9.5Ni 1.4Mo 1.4W 0.42(Cb+Ta) 0.22Ti	K63198	19-9DL
5723A	1/63	Steel bars, forgings, and rings, 20Cr 9Ni 1.6Mo 1.4W 0.6Ti	K63199	19-9DX
5724	12/53	Steel bars (up to 1-in. incl) 20Cr 9Ni 1.6Mo 1.4W 0.6Ti	K63199	19-9DX

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5725B	7/76	Steel bars (up to 1.5-in. incl) 16Cr 25Ni 6Mo 0.15N	— —	16-25-6
5726	1/77	Steel bars (up to —-in. incl) 15Cr 25.5Ni 1.25Mo 2.1Ti 0.006B 0.30V, 1800 F (982 C) sol. treated & work-strengthened consumable electrode melted	K66286	A-286
5727B	7/56	Steel forgings, 16Cr 25Ni 6Mo	— —	16-25-6
5728B	6/60	Steel forgings, 16Cr 25Ni 6Mo Hopkins elec. ingot process	— —	16-25-6
5729	12/53	Steel bars (up to 1.5-in. incl) 20Cr 9Ni 1.6Mo 1.4W 0.6Ti	K63199	19-9DX
5731E	1/76	Steel bars, forgings, mech. tubing, and rings, 15Cr 26Ni 1.3Mo 2.1Ti 0.006B 0.30V, cons. elect. melted, 1800 F sol. heat treated	K66286	A-286
5732D	1/76	Steel bars, forgings, tubing, and rings, 15Cr 26Ni 1.3Mo 2.1Ti 0.006B 0.30V, cons. elect. melted, 1800 F sol. & precip.	K66286	A-286
5733D	3/66	Steel bars and forgings, 13.5Cr 26Ni 3Mo 1.8Ti	K66220	Discaloy
5734D	1/76	Steel bars, forgings, and mech. tubing, 15Cr 26Ni 1.3Mo 2.1Ti 0.006B 0.30V, cons. elect. melted, 1650 F sol. treated	K66286	A-286
5735J	12/74	Steel bars, forgings, tubing, and rings, 15Cr 26Ni 1.3Mo 2.1Ti 0.30V, 1800 F sol. and precip. heat treated, use AMS 5732	K66286	A-286
5736G	12/74	Steel bars, forgings, mech. tubing, and rings, 15Cr 26Ni 1.3Mo 2.1Ti 0.30V 1800 F sol. treated, use AMS 5731	K66286	A-286
5737H	1/77	Steel bars, forgings, and mech. tubing, 15Cr 26Ni 1.3Mo 2.1Ti 0.006B 0.30V, cons. elect. melted, 1650 F sol. & precip. treated	K66286	A-286

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5741D	3/66	Steel bars and forgings, 13.5Cr 26Ni 1.75Mo 3Ti, cons. elect. vac. melted	K66545	W-545
5742A	1/60	Alloy bars and forgings, Fe-base 20.5Cr 32Ni 1.1Ti	N08801	Incoloy 801
5746B	5/68	Alloy bars and forgings, 15Cr 45Ni 4.1W 4.1Mo 3.0Ti 1.0Al cons. elect. vac. melted	K66979	D-979
5747	7/77		N07750	X-750
5748	11/69	Steel bars, forgings, and rings, 14Cr 13.5Co 5.0Mo 0.5Ni 0.20V, prem. quality, cons. elect. melted	K65770	AFC-77
5750B	5/73	Alloy bars, forgings, and rings, Ni base 16Mo 15.5Cr 5.5Fe 3.8W, sol. treated	N10002	Hastelloy C
5751B	12/74	Alloy bars, forgings, and rings, 54Ni 17.5Cr 16.5Co 4Mo 2.9Ti 2.9Al, 0.006B, sol. stabil. & precip. treated, cons. elect. or vac. induct. melted	N07500	Udimet 500
5753A	1/76	Alloy bars and forgings, 55Ni 18Cr 17Co 4Mo 3Ti 3Al 0.006B, vac. melted, sol. heat treated	N07500	Udimet 500
5754G	7/77	Alloy bars, forgings, and rings 47.5Ni 22Cr 1.50Co 9Mo 0.60W 18.5Fe	N06002	Hastelloy X
5756B	7/77	Alloy bars, forgings, and rings, 54Ni 19Cr 10Co 10Mo 1Al 2.5Ti, vac. melted, sol. treated	N07252	M-252, J1500
5757B	7/77	Alloy bars, forgings, and rings, 54Ni 19Cr 10Co 10Mo 1Al 2.5Ti 0.006B vac. melted, sol. & precip. treated	N07252	M-252, J1500
5758A	5/72	Alloy bars, high strength, 35Ni 35Co 20Cr 10Mo, sol. heat treated	R30035	MP 35 N

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5759E	11/72	Alloy bars, forgings, and rings, Co base 20Cr 10Ni 15W	R30605	L-605, WF-11, HS 25
5765B	7/76	Alloy bars and forgings, 43Co 20Cr 20Ni 4Mo 4W 4Cb	R30816	S-816
5766	5/72	Alloy bars and forgings, 32.5Ni 21Cr 46Fe 0.38Ti 0.38Al	N08800	Incoloy 800
5768F	6/74	Alloy bars, forgings, and rings, 21Cr 20Ni 20Co 3.0Mo 2.5W 1.0(Cb+Ta) 0.15N 31Fe, sol. & precip. heat treated	R30155	Multimet (N-155)
5769B	6/75	Alloy bars, forgings, and rings 32Fe 20Cr 20Ni 20Co 3Mo 2W 1(Cb+Ta) 0.15N, sol. treated	R30155	Multimet (N-155)
5770C	7/76	Alloy bars and forgings, 25Fe 20Cr 20Ni 20Co 4W 4Mo 4(Cb+Ta), sol. & precip. treated	R30590	S-590
5772	5/71	Alloy bars, forgings, and rings, Co base 22Cr 22Ni 14.5W 0.07La	R30188	Hastelloy 188
5778A	6/74	Alloy wire, welding, corrosion, & heat resistant, nickel base 15.5Cr 1.0(Cb+Ta) 2.4Ti 0.70Al 7.0Fe	N07750	Inconel X-750
5779	1/58	Alloy welding electrode, coated Ni base 15Cr (Cb+Ta) 1.9Ti 0.6Al	N07750	Inconel X-750
5782A	6/51	Steel wire, welding, 19Cr 9Ni 1.5W 1(Cb+Ta) 0.5Mo 0.2Ti	K63199	19-9W Mo
5783B	6/53	Welding electrode, coated, 19Cr 9Ni 1.5W 1(Cb+Ta) 0.5Mo	K63199	19-9 W Mo
5784	6/52	Steel wire, corr. resist., 29Cr 9Ni	K64299	29-9
5785B	6/53	Welding electrode, coated, corr. & heat resist., 29Cr 9Ni	K64299	29-9
5789	12/73	Alloy wire, welding, Co base 25.5Cr 10.5Ni 7.5W	R30031	Stellite 31
5794A	6/51	Alloy wire, welding, Fe base 20Cr 20Ni 20Co 3Mo 2W 1(Cb+Ta)	R30155	Multimet (N-155)
5795B	6/53	Alloy welding electrode, coated Fe base 20Cr 20Ni 20Co 3Mo 2W 1(Cb+Ta)	R30155	(N-155)

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5796	2/52	Alloy wire, Co base 20Cr 10Ni 15W	R30605	L-605, WF-11, HS 25
5797	11/52	Alloy welding electrode, coated, Co base 20Cr 10Ni 15W	R30605	L-605, WF-11, HS 25
5798A	11/68	Alloy wire, Ni base 22Cr 1.5Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
5799A	11/68	Alloy welding electrode, coated, Ni base 22Cr 1.50Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
5800A	1/63	Alloy welding wire, Ni base 19Cr 11Co 10Mo 3.2Ti 1.5Al, vac. melted	N07041	Réne' 41
5801	5/71	Alloy welding wire, Co base 22Cr 22Ni 14.5W 0.07La	R30188	Haynes 188
5804B	11/67	Steel wire, welding, 15Cr 26Ni 1.3Mo 2.2Ti 0.30V	K66286	A-286
5805B	11/67	Steel wire, welding, 15Cr 26Ni 1.3Mo 2.2Ti 0.30V, vac. melted	K66286	A-286
5817A	1/63	Steel wire, welding, 13Cr 2Ni 3W	S41800	Greek Ascoloy
5828B	12/74	Alloy wire, welding, 57Ni 19.5Cr 13.5Co 4.2Mo 3.1Ti 1.4Al 0.006B, vac. induct. melted	N07001	Waspaloy, Nimonic PK50
5829	12/73	Alloy wire, welding, Ni base 19.5Cr 18Co 2.5Ti 1.5Al	N07090	Nimonic 90
5832A	5/70	Alloy wire, welding, Ni base 19Cr 3.1Mo 5.1(Cb+Ta) 0.90Ti 0.50Al, cons. elect. or vac. induct. melted	N07718	Inconel 718
5837A	5/70	Alloy wire, welding, Ni base 21.5Cr 9.0Mo 3.7(Cb+Ta)	N06625	Inconel 625
5841	3/77	Alloy bars, corrosion & heat resistant, 19Cr 36Co 25Ni 7.0Mo 0.50Cb 2.9Ti 0.20Al 9.0Fe, sol. heat treated for work strengthening	— —	MP 159 Alloy

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5842	3/77	Alloy bars, work strengthened, corrosion and heat resistant, 19Cr 36Co 25Ni 7.0Mo 0.50Cb 2.9Ti 0.20Al 9.0Fe, sol. heat treated and cold drawn	--	MP 159 Alloy
5843	3/77	Alloy bars, work strengthened, corrosion and heat resistant, 19Cr 36Co 25Ni 7.0Mo 0.50Cb 2.9Ti 0.20Al 9.0Fe, sol. heat treated, cold drawn, & aged	--	MP 159 Alloy
5844	11/72	Alloy bars, high strength, corrosion resistant, 35Ni 35Co 20Cr 10Mo, sol. heat treated, cold drawn, centerless ground	R30035	MP 35 N
5845	11/72	Alloy bars, high strength, corrosion resistant, 35Ni 35Co 20Cr 10Mo, sol. heat treated, cold drawn, aged, centerless ground	R30035	MP 35 N
5855	9/75	Alloy powder, corrosion and heat resistant 59.5Ni 12Cr 10Co 3.0Mo 6.0W 3.0Ti 1.5Ta 4.5Al 0.015B 0.10Zr (0.30-0.35C)	--	--
5856	9/75	Alloy billets and preforms, corrosion & heat resistant, 59.5Ni 12Cr 10Co 3.0Mo 6.0W 3.0Ti 1.5Ta 4.5Al 0.015B 0.10Zr (0.30-0.35C) powder-metallurgy product	--	--
5870	5/72	Alloy sheet, strip, and plate, Ni base 23Cr 14Fe 1.35Al	N06601	Inconel 601
5871	5/72	Alloy sheet, strip, and plate, 32.5Ni 21Cr 46Fe	N08800	Incoloy 800
5872	5/73	Alloy sheet, strip, and plate, Ni base 20Cr 20Co 5.9Mo 2.2Ti 0.45Al, sol. heat treated	--	C.263
5873	12/73	Alloy sheet, strip, and plate, Ni base 15.8Cr 15.2Mo 0.30Al 0.05La	--	Hastelloy S

TABLE 27. (Continued)

AMS Number	Date, Mo/Yr	Title of Aerospace Material Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
5881	9/75	Alloy forgings, corrosion & heat resistant, 59.5Ni 12Cr 10Co 3.0Mo 6.0W 3.0Ti 1.5Ta 4.5Al 0.015B 0.10Zr (0.30-0.35C), solution, stabilized, and precipitation heat treated (powder metallurgy product)	— —	AF2-IDA
7235A	5/71	Rivets, steel, corr. & heat resist., 15Cr 26Ni 1.3Mo 2.1Ti 0.30V, 1650 F sol. & part. precip. heat treated (use AMS 5734)	K66286	A-286
7236A	11/71	Rivets, alloy-corr. & heat resist. Co base 20Cr 10Ni 15W	R30605	L-605, WF-11, HS 25
7237	7/63	Rivets, alloy-corr. & heat resist. Ni base 22Cr 1.5Co 9.0Mo 0.60W 18.5Fe	N06002	Hastelloy X
7469A	11/70	Bolts and screws, Ni alloy, corr. & heat resist., upset headed, heat treated, roll threaded, 2050 F sol., 1650 F precip. heat treat. (use AMS 5712)	N07041	R��n�� 41
7470F	11/70	Bolts and screws, steel, corr. & mod. heat resist., heat treated-roll threaded (use AMS 5616)	S41800	Greek Ascoloy
7471C	11/72	Bolts and screws, Ni alloy, corr. & heat. resist, upset headed, heat treated, roll threaded, 1950 F sol. heat treated (use AMS 5708)	N07001	Waspaloy, Nimonic PK50
7478G	11/70	Bolts and screws, steel, corr. & heat resist., heat treated, roll threaded, sol. & precip. treated (use AMS 5736)	K66286	A-286
7479C	11/70	Bolts and screws, steel, corr. & heat resist., heat treated, roll threaded, 1650 F sol. heat treated (use AMS 5734)	K66286	A-286
7481A	1/63	Studs, steel, corr. & heat. resist. heat treated, roll threaded (use AMS 5736)	K66286	A-286

TABLE 28. CURRENT US AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), AMERICAN NATIONAL STANDARD INSTITUTE (ANSI), AND AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) STANDARDS OR SPECIFICATIONS COVERING SUPERALLOYS

Standard Number ^(a)	Date, Mo/Yr	Title of Standard Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
A 276-77 (Part 5)	0/77	Stainless and heat-resisting steel bars and shapes	S21900 S21904	21-6-9 21-6-9 LC
A 296-77 (Part 2)	0/77	Corrosion-resistant iron-chromium, iron-chromium-nickel and nickel-base alloy castings for general applications	N10001 N10002	Hastelloy B Hastelloy C
A 314-76 (Part 5)	0/76	Stainless and heat-resisting steel billets and bars for forgings	S21900 S21904	21-6-9 21-6-9 LC
A 412-75 (Part 3)	0/75	Stainless and heat-resisting chromium-nickel-manganese steel plate, sheet and strip	S21900 S21904	21-6-9 21-6-9 LC
A 453-77a (Part 1) ANSI 638.12	0/77 — —	Bolting materials, high-temperature 50-120 ksi yield strength, with expansion coefficients comparable to austenitic steels	K66286 K66286	Grade 660 (A-286)
A 453-75 (Part 1) ANSI 638.12	0/75	Bolting materials, high-temperature 50-120 ksi yield strength, with expansion coefficients comparable to austenitic steels	K66286 K66286	Grade 660 (A-286)
			K63198 K63198	Grade 651 (D-19-9-DL)
			K66220 K66220	Grade 662 (Discaloy)
			K66545 K66545	Grade 665 (W-545)
A 457-71 (Part 3)	0/71	Hot-worked, hot-cold-worked, and cold-worked alloy steel plate, sheet, and strip for high strength at elevated temperatures	K63198 K63198	Grade 651 (was Grade 2) (19-9-DL)
A 458-71 (Part 5)	0/71	Hot-worked, hot-cold-worked, and cold-worked alloy steel bars for high strength at elevated temperatures	K63198 K63198	Grade 651 (was Grade 2) (19-9 DL)
A 477-71 (Part 5)	0/71	Hot-worked, hot-cold worked, and cold-worked alloy steel forgings and forging billets for high strength at elevated temperatures	K63198 K63198	Grade 651 (was Grade 2) (19-9 DL)

TABLE 28. (Continued)

Standard Number ^(a)	Date, Mo/Yr	Title of Standard Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
A 494-76 (Part 2)	0/76	Nickel and nickel alloy castings	N10001	Hastelloy B
			N10002	Hastelloy C
A 565-74 (Part 5)	0/74	Martensitic stainless steel bars, forgings, and forging stock for high-temperature service	—	Grade 619
			—	Lapalloy
A 567-74 (Part 2)	0/74	Iron-, cobalt-, and nickel-base alloy castings for high strength at elevated temperatures	N07750	Grade 6V
			N07750	AISI 684
			N07750	(Udimet 500)
			R30031	Grade 2
			R30031	(Stellite 31)
			R30155	Grade 3
			R30155	AISI 661
			R30155	(N-155)
			N06001	Grade 5
			N06001	AISI 680
			N06001	(Hastelloy X)
			N10002	Grade 4
			N10002	(Hastelloy C)
A 637-70 (Part 5, 8)	0/70 (Reapproved 1976)	Precipitation hardening nickel alloy bars, forgings, and forging stock for high-temperature service	N07252	Grade 689
			N07252	(M-252)
			N07252	(J-1500)
			N07001	Grade 685
ASME A637	— —		N07001	(Waspaloy)
			N07500	Grade 684
			N07500	(Udimet 500)
			N07750	Grade 688
			N07750	(Inconel X-750)
			N07718	Grade 718
			N07718	(Inconel 718)
			N07080	Grade 80A
			N07080	(Nimonic 80A)
A 638-70 (Part 5)	0/70 (Reapproved 1976)	Precipitation hardening iron-base superalloy bars, forgings, and forging stock for high-temperature service	K66220	Grade 662
			K66220	(Discaloy)
			K66286	Grade 660
A 639-70 (Part 5, 8)	0/70 (Reapproved 1976)	Precipitation hardening cobalt-containing alloy bars, forgings and forging stock for high-temperature service	K66286	(A-286)
			R30155	Grade 661
			R30155	(N-155)

TABLE 28. (Continued)

Standard Number ^(a)	Date, Mo/Yr	Title of Standard Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
			R30816 R30816	Grade 671 (S-816)
A 670-72 (Part 3, 8)	0/72	Precipitation hardening nickel alloy (UNS N07718), plate, sheet, and strip for high-temperature service	N07718	Inconel 718
B 163-77 (Part 8)	0/77	Seamless nickel and nickel alloy condenser and heat exchanger tubes	N06600	Inconel X
ANSI H34-42	--			
ASME SB163	--			
			N08800 N08825	Incoloy 800 Incoloy 825
B 333-77 (Part 8)	0/77	Nickel-molybdenum alloy (UNS N10001) plate and sheet	N10001	Hastelloy B
ANSI H34.11	1/73			
B 334-77 (Part 8)	0/77	Nickel-molybdenum-chromium alloy (UNS N10002) plate and sheet	N10002	Hastelloy C
ANSI H34.12	1/73			
B 335-77 (Part 8)	0/77	Nickel-molybdenum alloy (UNS N10001) rod	N10001	Hastelloy B
ANSI H34.13	1/73			
B 336-71 (Part 8)	0/71	Nickel-molybdenum-chromium (UNS N10002) alloy rod	N10002	Hastelloy C
ANSI H34.14	1/73			
B 407-77 (Part 8)	0/77	Nickel-iron-chromium alloy (UNS N08800) seamless pipe and tube	N08800	Incoloy 800
ANSI H34.41	--			
ASME SB407	--			
B 408-77 (Part 8)	0/77	Nickel-iron-chromium alloy (UNS N08800) rod and bar	N08800	Incoloy 800
ANSI H34.39	--			
ASME SB408	--			
B 409-77 (Part 8)	0/77	Nickel-iron-chromium alloy (UNS N08800) plate, sheet, and strip	N08800	Incoloy 800
ANSI 34.40	--			
ASME SB409	--			
B 423-75 (Part 8)	0/75	Nickel-iron-chromium-molybdenum-copper alloy (UNS N08825) seamless pipe and tube	N08825	Incoloy 825
ANSI H34.16	--			
ASME SB423	--			

TABLE 28. (Continued)

Standard Number ^(a)	Date, Mo/Yr	Title of Standard Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
B 424-75 (Part 8)	0/75	Nickel-iron-chromium-molybdenum-copper alloy (UNS N08825) plate, sheet, and strip	N08825	Incoloy 825
ANSI H34.17	--			
ASME SB424	--			
B 425-75 (Part 8)	0/75	Nickel-iron-chromium-molybdenum-copper alloy (UNS N08825) rod and bar	N08825	Incoloy 825
ANSI H34.18	--			
ASME SB425	--			
B 435-77 (Part 8)	0/77	Nickel-chromium-molybdenum-iron alloy (UNS N06002) sheet and plate	N06002 N06002	Hastelloy X AISI 680
B 443-75 (Part 8)	0/75	Nickel-chromium-molybdenum-columbium (niobium) alloy (UNS N06625) plate, sheet, and strip	N06625	Inconel 625
ANSI H34.19	--			
ASME SB443	--			
B 444-75 (Part 8)	0/75	Nickel-chromium-molybdenum-columbium (niobium) alloy (UNS N06625) seamless pipe and tube	N06625	Inconel 625
ANSI H34.20	--			
ASME SB444	--			
B 445-72 (Part 8)	0/72	Nickel-chromium-iron-columbium (niobium)-molybdenum-tungsten alloy (UNS N06102) seamless pipe and tube	N06102	IN 102
ANSI H34.21	4/73			
ASME SB445	--			
B 446-75 (Part 8)	0/75	Nickel-chromium-molybdenum-columbium (niobium) alloy (UNS N06625) rod and bar	N06625	Inconel 625
ANSI H34.22	--			
ASME SB446	--			
B 518-70 (Part 8)	0/70	Nickel-chromium-iron-columbium molybdenum-tungsten alloy (UNS N06102) rod and bar	N06102 N06102	IN 102 IN 102
ANSI 434.27	(Reapproved 1975) 3/71			
B 519-70 (Part 8)	0/70	Nickel-chromium-iron-columbium-molybdenum-tungsten alloy (UNS N06102) plate, sheet and strip	N06102	IN 102
ANSI H34.28	(Reapproved 1975) 3/71			

TABLE 28. (Continued)

Standard Number ^(a)	Date, Mo/Yr	Title of Standard Specification For:	Related UNS Number	Common Alloy Name(s) or Designation(s)
B 564-77 (Part 8)	0/77	Nickel Alloy Forgings	N08800 N08801	Incoloy 800 Incoloy 800H
B 572-77 (Part 8)	0/77	Nickel-chromium-molybdenum-iron alloy (UNS N06002) Rod	N06002	Hastelloy X
B 574-77 (Part 8)	0/77	Low-carbon nickel-molybdenum-chromium alloy (UNS N10276) Rod	N10276	Hastelloy C 276
B575-77 (Part 8)	0/77	Low-carbon nickel-molybdenum-chromium alloy (UNS N10276) plate, sheet, and strip	N10276	Hastelloy C 276
F75-76 (Part 46)	0/76	Cast cobalt-chromium-molybdenum alloy for surgical implant applications	— —	— —
F90-76 (Part 46)	0/76	Wrought cobalt-chromium-tungsten-nickel alloy for surgical implant applications	R30605	L-605

(a) All numbers shown are ASTM Standard numbers except where designated otherwise. Both ANSI and ASME have adopted numerous ASTM Standards or Specifications. In some cases, ANSI has used the same specification number as the ASTM Standard number. In other cases, ANSI has assigned an individual ANSI number which, in this column, is identified by the ANSI prefix. The ASME nomenclature uses the prefix S along with the appropriate ASTM number, e.g., ASTM A637 becomes ASME SA637.

**TABLE 29. CURRENT AMERICAN WELDING SOCIETY (AWS) STANDARDS
COVERING SUPERALLOY WELDING RODS**

AWS Standard Number	Year	Title of Standard	Related UNS Number	Common Alloy Name(s) or Designation(s)
A5.4-69	0/69	Specification for Corrosion- Resisting Chromium and Chromium-Nickel Steel Covered Welding Electrodes (22 pp)		
A5.9-69	0/69	Specification for Corrosion- Resisting Chromium and Chromium-Nickel Steel Welding Rods and Bare Electrodes (17 pp)		
A5.11-76	0/76	Specification for Nickel and Nickel Alloy Covered Welding Electrodes (23 pp)		
A5.13-70	0/70	Specification for Surfacing Welding Rods and Electrodes (39 pp)		
A5.14-76	0/76	Specification for Nickel and Nickel Alloy Bare Welding Rods and Electrodes (10 pp)		
A5.21-70	0/70	Specification for Composite Surfacing Welding Rods and Electrodes (32 pp)		

TABLE 30. CURRENT US MILITARY (MIL) SPECIFICATIONS COVERING SUPERALLOYS

Specification Number	Date, mo/Yr	Title of Specification	Related UNS Number	Common Alloy Name(s) or Designation(s)
MIL-R-5031B	7/66	Rod and wire, welding, corrosion and heat resistant alloys		
		[Alloy Class 6]	K63199	19-9W MO
		[Alloy Class 8]	N06600	Inconel 600
		[Alloy Class 9]	R30155	N-155
		[Alloy Class 13]	R30605	L-605, WF11, HS125
		--	--	Hastelloy B
MIL-N-7786C	2/71	Nickel-chromium alloy, sheet and strip, age hardenable, annealed	N07750	Inconel X-750
MIL-N-8550	12/54	Nickel alloy, bars and forgings, 1200-1500 F operating temp.	N07750	Inconel X-750
MIL-R-17131B	8/73	Rods and powders, welding, surfacing	--	Stellite 6
MIL-N-18088	8/54	Nickel-molybdenum-chromium plates and strips (slit sheets) corrosion and heat resisting	N10002	Hastelloy C
MIL-S-23192 (Ships)	3/62	Springs, Helical age-hardenable nickel-chromium-iron alloys	N07750	Inconel X-750
MIL-N-24114A	6/65	Nickel-chromium-iron age-hardenable alloy, bars, rods and forgings, air melted or vacuum melted	N07750	Inconel X-750

TABLE 31. CORRELATION OF UNITED STATES STANDARDS OR SPECIFICATIONS OF
COMMERCIAL SUPERALLOYS AND APPLICABLE MATERIAL FORMS

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	ASME No.	ANSI No.	SAE No.	AMS (Aerospace Material Specification) No.			
								Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Tubing
Group 1. Ferritic (Martensitic) Stainless Steels											
Greek Ascoloy	Cr13,Fe/Bal81.2,Ni2,W3	S41800	615	A565(615) [Ba,Fg]			J467(Greek Ascoloy)	5354	5616 7470(Bolts)	5508	5817
Lapelloy	Cr12,Fe/Bal83,Mn1, Mo2.75,Ni0.3,V0.25	S42300	619	A565(619) [Ba,Fg]							
Lapelloy C	Cr11.5,Cu2,Fe/Bal82, Mo2.75,Ni0.3,V0.25										
422	Cr12,Fe/Bal83.8,Mo1, Ni0.7,V0.25,W1	S42200	422 616	A-565(616) [Ba,Fg]			J467(616)		5655		
Group 1a. Age-Hardening Stainless Steels											
18 AFC-77	Co13,Cr14.5,Fe/Bal67, V0.4	K65770							5748		
Group 2. Chromium, Nickel, Iron Alloys											
A-286	Al0.2,B,Cr15,Fe/Bal53, Mn1.4,Mo1.25,Ni26, Ti2.15,V0.3	K66286	660	A-453(660) [Bolting] A-638(660) [Ba,Fg]	SA638 (660) [Ba,Fg]		J467(A286)		5731-32 5734-35 5736-37 7235[Rivets] 7478[Bolting] 7479[Bolting] 7481[Studs]	5525 5731 5732 5734 5735 5736 5737	5804 5805
CG-27	Al1.5,B,Cr13,Fe/Bal38.6, Mo5.5,Nb/Cb0.6,Ni38, Ti2.5	N09027							5633 5634		
Discaloy	Cr13.5,Fe/Bal55.8,Mo3, Ni25,Ti1.75	K66220	662	A-453(662) [Bolting] A638(662) [Ba,Fg]			J467(Discaloy)		5733		

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	ASME No.	ANSI No.	SAE No.	AMS (Aerospace Material Specification) No.			
								Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Wire
Group 2. Chromium, Nickel, Iron Alloys (continued)											
D-979*	Al11,B,Cr15,Fe27,Mo4, Ni45,Ti3,W4	K66979 N09979	664				J467(D-979)				
Incoloy alloy 800	Al0.38,Cr21,Fe46,Ni32.5, Ti0.38	N08800		B-163[Tube] B-407[Tube, Pipe] B-408[Ba,Rod] B-409[Sh,St Pi] B366[Weld,Fit] B513[Pipe,Tube] B514[Pipe] B564[Fg] B515[Tube]	SB163 [Tube] SB407 [Tube, Pipe] SB408 [Ba,Rod] SB409 [Sh,St Pi] SB409 [Ba,Rod] SB409 [Sh,St Pi] SB409 [Sh,St Pi] SB409 [Sh,St Pi] SB409 [Sh,St Pi]	H34.15 H34.23 H34.24 H34.39 H34.40 H34.41 H34.42		5746	5509		
									5766	5871	
Incoloy alloy 800H	Al0.27,Cr21,Fe46,Ni32.5, Ti0.38,Cu0.75	N08810		B163[Tube] B407 [Tube,Pipe] B408[Ba,Rod] B409[Sh,St, Pi] B564[Fg]	SB163 [Tube] SB407 [Tube, Pipe] SB408 [Ba,Rod] SB409 [Sh,St Pi] SB408 [Ba,Rod] SB409 [Sh,St Pi] SB564 [Fg]						
Incoloy alloy 801	Cr20.5,Fe44.5,Ni32,Ti1.13	N08801							5742	5552	
Incoloy alloy 825	Al0.15,Cr21.5,Cu2.2,Fe30, Mn1,Mo3,Ni41.8,Ti0.9	N08825		B163[Tube] B-423[Tube, Pipe] B-424[Sh,St Pi] B-425[Rod, Ba] B-425[Rod, Ba]	SB163 [Tube] SB423 [Tube Pipe] SB424 [Sh,St Pi] SB424 [Sh,St Pi] SB425 [Ba,Rod]						

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	ASME No.	ANSI No.	SAE No.	AMS (Aerospace Material Specification) No.				
								Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Tubing	Wire
Group 2. Chromium, Nickel, Iron Alloys (continued)												
Incoloy alloy 901	Al0.25,Cr13.5,Fe34, Mo6.2,Ni42.7,Ti2.5	N09901	681						5660 5661			
V-57	Al0.25,B,Cr14.8,Fe/Bal52.2, Mo1.25,Ni27,Ti35,V0.5		663									
W-545	B,Cr13.5,Fe/Bal54.5, Mn1.75,Mo1.8,Ni25, Ti2.85	K66545	665	A-453(665) [Bolting]			J467(W545)		5741	5543		
16-25-6	Cr16,Fe/Bal50.7,Mn1.35, Mo6,Ni25,N		650	A-457 [Sh,St,Pl] A-458 [Ba] A-477 [Ba,Fg]					5725 5727 5728			
17-14 CuMo	Cr15.9,Cu3,Fe/Bal62.4, Mo2.5,Nb/Cb0.45,Ni14.1, Ti0.25		653									
19-9 DL	Cr19,Fe/Bal66.8,Mn1, Mo1.25,Ni9,Nb/Cb0.4, Ti0.3,W1.2	K63198	651	A-453(651) [Bolting] A-457(651) [Sh,St,Pl] A-458(651) [Ba] A-477(651) [Ba,Bi,Fg]			J467(19-9 DL)	5369	5720 5721 5722 5723 5724	5526 5527 5538 5539		5579
19-9 DX	Cr19.2,Fe/Bal66.7,Mn1, Mo1.50,Ni9,Ti0.55,W1.2	K63199	652	A-457 [Sh,Pl,St] A-458 [Ba] A-477 [Ba,Fg]			J467(19-9DX)	5369	5720 5721 5722 5723 5724 5729	5526 5527 5538 5539		

TABLE 31. (Continued)

[illegible]

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	ASME No.	ANSI No.	SAE No.	AMS (Aerospace Material Specification) No.			
								Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Tubing
Group 3. Chromium, Nickel, Cobalt, Iron Alloys											
N-155, Multimet	Co20,Cr21,Fe/Bal30.2, Mn1.5,Mo3,Nb/Cb1, Ni20,N,W2.5	R30155	661	A639(661) [Ba,Fg] A567(661) [Cast]		G81.40		5376	5768 5769	5531 5532	5585 5794 5795
Refrac-taloy 26	Co19,Cr18,Fe/Bal22.9, Mo3,Ni36,Ti2.6		690								
S-590	Co20,Cr20.5,Fe/Bal25.4, Mn12.5,Mo4,Nb/Cb4, Ni20,W4	R30590						5770	5533		
Group 4. Nickel-Base Alloys											
Alloy 713C (IN-713) Alloy 713LC	Al6.1,B,Cr12.5,Fe2.5, Mo4.2,Nb/Cb2,Ni/Bal70.9, Ti0.8,Zr	N07713	A567 [Cast]					5391			
GMR 235	Al3,Cr15.5,Fe10, Mo5.25, Ni/Bal63.19,Ti2		686								
Hastelloy B	Co2.5,Cr0.6,Fe5,Mo28, Ni/Bal62,V0.3	N10001		B-333 [Pl,Sh] B-335 [Rod] B336 [Rod] A296 [Cast] A-494 [Cast]	SB333 [Sh,Pl] SB335 [Rod]	H34.13 H34.15		5396			
Hastelloy C	Co2.5,Cr16,Fe5,Mo17, Ni/Bal53.9,W4	N10002		A296 [Cast] A494 [Cast] A567 [Cast] B334 [Sh,Pl] B336 [Rod] B366 [Weld. Fit]	SFA5.14 SFA5.11 SB334 SB336	G81.10 G81.34 G81.40 H34.12 H34.14 H34.15		5388 5389	5750 5530	AWS A5.11 AWS A5.4	

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	ASME No.	ANSI No.	AMS (Aerospace Material Specification) No.			
							Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Wire
Group 4. Nickel-Base Alloys (continued)										
Hastelloy C-276	Co2.5,Cr15.5,Fe5.5,Mo16, Ni/Bal55.4,V0.35,W3.75	N10276		B574[Rod] B575[Sh,St,Pl]						
Hastelloy W	Co2.5,Cr5,Fe5.5,Mo24.5, Ni/Bal59.8,V0.6	N10004						5755		5786 5787
Hastelloy X	Co1.5,Cr22,Fe18.5,Mo9, Ni/Bal47.3,W0.6	N06002	680	A435[Sh,Pl] B366[Rod] B567[Cast] B572[Rod]	SB435 [Sh,Pl]	H34.15		5390	5754 7237 [Rivets]	5536 5587 5588 5798 5799
Inconel alloy 601	Al1.35,Cr23,Fe14.1, Ni60.5	N06601						5715		5870
Inconel alloy 625	Al0.2,Cr21.5,Fe2.5, Mo9,Ni61,Ti0.2	N06625		B-443[Sh,St,Pl] B-444[Tube, Pipe] B-446[Rod,Ba]	SB443 [Sh,St,Pl] SB444 [Tube, Pipe] SB446 [Ba,Rod]	H34.19 H34.20 H34.22			5666	5599 5837
Inconel alloy 702	Al3.25,Cr15.5,Fe1, Ni79.5,Ti0.63	N07702								5550
Inconel alloy 706	Al0.2,Co0.5,Cr16,Fe40, Mo0.5,Nb/Cb2.9,Ni41.5, Ti1.75	N07706							5666 5701 5702 5703	5605 5606
Inconel alloy 718	Al0.5,Cr19,Fe18.5, Mo3.05,Nb/Cb5.13,Ni52.5, Ti0.9	N07718		A637[Ba,Fe] A670[Sh,St,Pl]				5383	5662 5663 5664	5596 5597 5832 5589 5590
Inconel alloy 722	Al0.7,Cr15.5,Fe7,Ni75, Ti2.38	N07722							5714	5541

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM (a) Specification No.	ASME No.	ANSI No.	AMS (Aerospace Material Specification) No.					
							SAE No.	Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Tubing	Wire
Group 4. Nickel-Base Alloys (continued)												
Inconel alloy X-750	Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5	N07750	688	A 637 [Ba,Fg]	SA637 [Ba,Fg]							
IN-100	Al5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7,V,Zr	N13100						5397				
IN-102	Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,Zr0.03	N06102		B-445 [Tube, Pipe] B518 [Ba,Rod] B519 [Sh,St,Pl]		H34.21 H34.27 H34.28						
M-252, J-1500	Al1,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6	N07252	689	A-637 [Ba,Fg]					5756 5757	5551		
Nimonic 80A (UK)	Al1.4,Cr19.5,Ni75,Ti2.4	N07080		A637 [Ba,Fg]								5829
Nimonic 90 (UK)	Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5	N07090										
RA-333	Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5,Si1.25,W3	N06333							5717	5593		
Rene 41	Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1	N07041	683					5399	5712 5713 7469 [Bolts]	5545		5800
Udimet 500	Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9	N07500	684	A 637 [Ba,Fg] A567 [Cast]				5384	5751 5753			
Udimet 700	Al4.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5		687									

TABLE 31. (Continued)

Alloy Designation	Nominal Composition, weight percent (Essential Elements Only)	UNS Number	AISI No.	ASTM Specification No.	AMS (Aerospace Material Specification) No.					
					Group 4. Nickel-Base Alloys (continued)					
					SAE No.	Castings	Bars, Forgings, or Rings	Sheet, Strip, or Plate	Tubing	Wire
Waspaloy	A11.4,B,Co13.5,Cr19.5, Cu0.10,Fe2,Mo4.3, Ni/Bal55,Ti3,Zr0.09	N07001	685	A637 [Ba,Fg]			5704 5706 5707 5708 5709	5544 7471	5586	5828
Group 5. Cobalt Base Alloys										
Haynes Alloy No.188	Co/Bal39.2,Cr22,Fe1.5, La,Ni22,W14	R30188					5772	5608		5801
Haynes Stellite No.21	Co/Bal62,Cr27,Fe1, Mo5,Ni3	R30021		A567(1) [Cast]	681.40	5385				
Haynes Stellite No.23	Co/Bal66.7,Cr24,Fe1, Mo5,Ni2	R30023				5375				
Haynes Stellite No.27	Co/Bal35.2,Cr25,Fe1, Mo5,Ni32	R30027				5378				
Haynes Stellite No.30	Co/Bal50.3,Cr26,Fe1, Mo5.5,Ni32	R30030				5380				
S-816	Co/Bal42,Cr20,Fe4, Mn1.2,Mo4,Nb/Cb4, Ni20,W4	R30816	671	A639(671) [Ba,Fg]			5765	5534		
WF-11, L605,HS-25	Co/Bal52.9,Cr20,Mn1.5, Ni10,W15	R30605	670	F90[Wrought]			5759 7236(Rivets)	5537		5796 5797
X-40,HS-31	B,Co/Bal52.5,Cr25.5,Fe2, Ni10.5,W7.5	R30031		A567(2) [Cast]	G81.40	5382				5789

(a) FOOTNOTES

Pl	=	Plate
Sh	=	Sheet
St	=	Strip
Fg	=	Forgings
Ba	=	Bar
Cast	=	Casting
W	=	Wire

APPENDIX A1. COUNTRY CODE^(a)
(Alphabetical by Country Name)

Ctry Code	Country Name
AR	Argentina
AT	Australia
AU	Austria
BE	Belgium
BR	Brazil
BU	Bulgaria
CN	Canada
CH	China (Main Land)
CZ	Czechoslovakia
DE	Denmark
EE	Eastern Europe
EU	Europe
FI	Finland
FR	France
GE	Germany (East)
GY	Germany (West)
GR	Greece
HU	Hungary
IN	India
IS	Israel
IT	Italy
JA	Japan
MX	Mexico
NE	Netherlands
NZ	New Zealand
NO	Norway
PO	Poland
PT	Portugal
RU	Rumania
SP	Spain
SW	Sweden
SZ	Switzerland
TW	Taiwan, Formosa
UA	Union of South Africa
UK	United Kingdon
US	United States
UR	USSR (Russia)
XX	World-Wide
YU	Yugoslavia

- (a) A country identification system by means of a two letter code was developed over ten years ago by the U.S. Defense Department and is called the Defense Department Country Code Index. The above is a partial list of 275 different countries and entities in the complete system. The system is extensively used by the U.S. government in their computer networks.

APPENDIX A2. SUPERALLOY PRIME PRODUCERS AND PATENTEES
(Alphanumeric by Company Name)

Company Code	Company Name and City
A	
C-0137	Abex Corp., Engineered Products Div., Elyria, Ohio 44035
C-0140	A. E. Turbine Components, Ltd., Yeadon, Leeds, LS19 7AY England (A. E. = Associated Engineering)
C-0090	AiResearch Manufacturing Co., Div. of Garrett Corp., (A Signal Co.), Los Angeles, California 90045
C-0175	Almenit-Stahl-Gesellschaft, 8986 Mittelberg (Kleinwalsertal), West Germany
C-0005	Armco Steel Corp., Advanced Materials Division (ARMCO), Baltimore, Maryland 21203
C-0135	Aubert et Duval, 92200 Neuilly-sur-Seine, Paris, France
C-0180	August Dreckshage Eisen und Stahl, 4800 Bielefeld, West Germany
C-0021	Avesta Jernverks Aktiebolag, 774 01 Avesta, Sweden
B	
C-0087	Babcock & Wilcox, Beaver Falls, Pennsylvania 15010
C-0126	Bergische Stahl-Industrie, (BSI) 5630 Remscheid, West Germany
C-0088	Blaw-Knox Co., National Alloys Div., Blaw-Knox, Pennsylvania 15238
C-0144	Bofors AB, Ackers, 31 Ackers, Styckebruck, Sweden
C-0148	British Steel Corp., Special Steels Div., Sheffield, S3 8AZ England
C	
C-0156	Cabot Alloys Europe Ltd., Northhamtonshire, NN17 2AZ England (See C-0068)
C-0157	Cameron Iron Works Inc., Houston, Texas 77001
C-0171	Canadian Quebec Metallurgical Corporation, Quebec, Canada
C-0079	Cannon-Muskegon Corp., Muskegon, Michigan 49443
C-0042	Carpenter Technology Corporation, Reading, Pennsylvania 19603
C-0169	Certified Alloy Products Inc., Long Beach, California 90801
C-0099	Chrysler Corp., Detroit, Michigan 48231
C-0150	Cobalt Information Center, Brussels, Belgium (A defunct organization)
C-0096	Cooper Alloy Corp., Hillside, New Jersey 07205
C-0136	Creusot-Loire Division Forges-Estampage 75009 Paris, France (See C-0102)
C-0102	Creusot-Loire (Metal Imphy) Acieries D'Imphy 75009 Paris, France
C-0178	Creusot-Loire GmbH, 4000 Düsseldorf, West Germany
C-0004	Crucible, Inc., Specialty Metals Div., Colt Industries, Syracuse, New York 13201 (See C-0034)
C-0034	Crucible Materials Research Center, Colt Industries, Inc., Pittsburgh, Pennsylvania 15230 (See C-0004)
D	
C-0113	Deloro Stellite Ltd., Div. of Canadian Oxygen Ltd., Bellville, Ontario, K8N 5C4 Canada
C-0097	Deloro Stellite (UK), Ltd., Margaret, Swindon SN3 4QA Wiltshire, England

APPENDIX A2. (Continued)

Company Code	Company Name and City
D	
C-0125	Deutsche Edelstahlwerke AG, (DEW), 4150 Krefeld, West Germany (Now Thyssen Edelstahlwerke AG) (See C-0152)
C-0179	Deutsche Gilby-Fodor GmbH, 6600 Saarbrücken 3, West Germany
C-0110	Du Pont de Nemours & Co., E.I., Wilmington, Delaware 19898 (No proprietary alloys)
E	
C-0176	E. A. Brand & Co., 2800 Bremen 1, West Germany
C-0107	Eastern Stainless Steel Co., Div. of Eastmet Corp., Baltimore, Maryland 21203
C-0177	Edelstahlwerke Buderus AG, 6330 Wetzlar, West Germany
C-0127	Edelstahl Witten Werks AG, 5810 Witten, West Germany
C-0076	Elektrostal, Elektrostal, near Moscow, USSR (Formerly Noginsk)
C-0195	Emil Weingartner & Co. KG, Edelstahl-grosshandl, 2000 Hamburg 54, West Germany
C-0181	Estanit GmbH KG, Edelstahl-und Gusstechnik, 4330 Mulheim (Ruhr)-Raadt, West Germany
F	
C-0172	Fansteel Advanced Structures Division, Los Angeles, California 90054
C-0155	Fansteel Inc. of H. K. Porter Company, North Chicago, Illinois 60064
C-0158	Firth-Brown Ltd., Atlas Works, Sheffield, S4 7SU England
C-0083	Firth Sterling Inc., Pittsburgh, Pennsylvania 15220
C-0094	Firth-Vickers Special Steels, Ltd., Staybrite Works, Sheffield, S9 2FU England
C-0154	Fort Motor Company, Detroit, Michigan 48121
C-0162	Fried, Krupp Hüttenwerke AG (FKH), 4630 Bochum, West Germany
C-0123	Fried, Krupp Steel Works, Essen, West Germany (See C-0162)
C-0182	Fürstlich Hohenzollernsche Hüttenverwaltung Laucherthal, 7480 Sigmaringen, West Germany
G	
C-0138	Gebr. Böhler & Co. AG, A-1010 Vienna, Austria
C-0105	Gebr. Böhler & Co. AG, 4000, Düsseldorf-Oberkassel, West Germany
C-0184	Gebrüder Höver, Edelstahlwerk, 5251 Kaiserau, West Germany
C-0091	General Electric Co., Aircraft Engine Div., Cincinnati, Ohio 45215 (See C-0078 and C-0174)
C-0174	General Electric Company, Gas Turbine Div., Engineering and Manufacturing, Schenectady, New York 12345 (See C-0078 and C-0091)
C-0078	General Electric Company, Metallurgical Products Dept., Detroit, Michigan 48232 (See C-0091 and C-0174)
C-0108	General Motors Corp., Detroit, Michigan 48202

APPENDIX A2. (Continued)

Company Code	Company Name and City
H	
C-0106	Hadfields, Ltd., Sheffield 9 England
C-0124	Heinkel-Hirth Co., Berlin, West Germany
C-0192	Heinr, Aug. Schulte AG, 4600 Dortmund 1, West Germany
C-0187	Heinrich Reining GmbH, 4000 Düsseldorf 1, West Germany
C-0074	Henry Wiggin & Co., Ltd., Hereford, HR4 9SL England
C-0173	High Duty Alloys Forging Ltd. (HDAF), Redditch Worcestershire B97 6ER England
C-0183	Hoesch Estel, Hoesch Werke Hohenlimburg-Schwerte AG, 5850, Hohenlimburg, West Germany
C-0159	Howmet Alloys International, Exeter, EX2 7LG England (See C-0070)
C-0022	Howmet Turbine Components Corporation, (Div. of PUG), Muskegon, Michigan 49440 (See C-0033)
C-0070	Howmet-Corporation (Div. of PUG) Greenwich, Connecticut 06830 (See C-0080, C-0022, C-0033, C-0112, and C-0085)
C-0112	Howmet Turbine Components Corp., Alloy Division, Dover, New Jersey 07801
C-0085	Howmet Turbine Components Corp., Austenal Dover Div., Dover, New Jersey 07801 (See C-0070)
C-0067	Huntington Alloys Inc., Div. of International Nickel Corp., Huntington, West Virginia 25720 (See C-0071)
I	
C-0086	Inco Europe Ltd. (Formerly International Nickel Ltd.) and (Previously Mond Nickel Ltd.), Sheffield and Birmingham, B16 0AJ England
C-0117	Industria Lamiere Speciali 20159 Milano, Italy
C-0100	International Nickel Co. of Canada Ltd., Toronto M5K 1E3 Ontario, Canada (See C-0071)
C-0071	International Nickel Co., Inc., New York, New York 10004 (See C-0067)
J	
C-0147	Jessop-Saville, Ltd., Sheffield, S9 2SS England
C-0131	Jodots Freres, Ets., Boloeil, Belgium
C-0109	Joslyn Stainless Steels Co., Div. of Joslyn Mfg. and Supply Co., Ft. Wayne, Indiana 46801
K	
C-1011	Kawecki Chemical Co., Boyertown, Pennsylvania
C-0185	Koerver & Nehring GmbH, 4150 Krefeld, West Germany
C-0118	Koppers Co., Inc., Pittsburgh, Pennsylvania 15219

APPENDIX A2. (Continued)

Company Code	Company Name and City
L	
C-0186	Lachmann & Steingrube, 2000 Hamburg 11, West Germany
C-0084	Latrobe Steel Co. (Sub. of The Timken Co.), Latrobe, Pennsylvania 15650
M	
C-0149	Main Metal Ltd., London W.C.2, England
C-0104	Mannesmann AG, 4000, Düsseldorf 1, West Germany
C-0069	Martin Metals Co., (now only a license monitoring operation) Formerly a subsidiary of Martin-Marietta Corp.), Wheeling, Illinois 60090 (Previously Sierra Metals Corp.)
C-0098	Midvale-Heppenstal Co., Nicetown, Philadelphia, Pennsylvania 19140
C-0115	Mitsubishi Metal Corporation, Okagawa Plant No. 5-2 1-Chrome Ohts-Machi, Chiyada-Ku Tokyo 100, Japan
N	
C-0064	National Aeronautics and Space Administration (NASA) Lewis Research Center, Space Technology and Materials, Cleveland, Ohio 44135
C-0142	Nippon-Kokan K.K. (Kabushiki Kaisha Technical Research Center), Kawasaki-Ku, Kawasaki, 210 Japan
C-0145	Nyby Bruks Aktiebolag, Nyby Bruk, Sweden
P	
C-0033	Pechiney-Ugine-Kuhlmann (PUG), Paris, France (See C-0022), (See C-0020, C-0194, C-0070)
C-0141	Poldi Steel Works, Prague, Czechoslovakia
C-0121	Pose-Marre Edelstahlwerk GmbH, 10006 Erkrath-Düsseldorf, West Germany
C-0092	Pratt & Whitney Aircraft Div. of United Technologies Corp., Hartford, Connecticut 06101
R	
C-0011	Republic Steel Corporation, Special Metals Div., Massillon, Ohio 44646
C-0196	Robert Zapp, Edelstähle, Zapp-Haus, 4000 Düsseldorf, West Germany
C-0160	Roehling Burbach GmbH, 6620 Voalkinger/Saar, West Germany
C-0077	Rolled Alloys, Inc., Detroit, Michigan 48211
C-0093	Rolls-Royce Mfg. Co., Derby, England
C-0065	Ross & Catherall, Ltd., Sheffield S31 83A, England
C-0101	Rustless Iron and Steel Div., Armco Steel Corp., Baltimore, Maryland 21203 (See C-0005)

APPENDIX A2. (Continued)

Company Code	Company Name and City
S	
C-0095	Samuel Fox Company, Ltd., Stocksbridge Works, Sheffield (Now part of British Steel Corporation) (See C-0148) England
C-0143	Sandvikens-Jernverks Aktiebolag 811 01 Sandviken, Sweden
C-0167	Sandvikstahl GmbH, Dusseldorf, West Germany
C-0166	Sandvik Steel Inc., Fairlawn, New Jersey 07410
C-0189	Schmidt + Clemens, Edeistahlwerk, 5251 Kaiserau, Bezirk Köln, über Engelskirchen, West Germany
C-0190	Schmolz + Bickenbach, 4000 Dusseldorf 1, West Germany
C-0130	Schneider & Cie, Paris, France
C-0129	Schneider, Virgo, Paris, France
C-0191	Schoeller-Bleckmann Stahlwerke GmbH, 4044 Kaarst über Neuss/Düsseldorf, West Germany
C-0114	Shawinigan Chemicals, Ltd., Montreal, Canada
C-0143	Sheepbridge Alloy Castings, Ltd., Sutton-in-Ashfield, Notts, England
C-0081	Sierra Metals Corporation, Wheeling, Illinois (Changed to Martin Metal Co.) (See C-0069)
C-0133	Societe Ferry-Captain, Joinville, (Haute Marne), France
C-0132	Soc. Anon. de Commentry Fourchambault et Decaseville, Paris, France
C-0164	Sorcery Metals, Delray Beach, Florida 33444 (See C-0165)
C-0165	Sorcery Metals (UK) Ltd., Marple Stockport SK6 6BO, England (See C-0164)
C-0066	Special Metals Corp., An Allegheny Ludlum Industries Co., New Hartford, New York 13413
C-0153	Stahlwerke Südwestfalen AG, 5900 Sieger-Geisweid, West Germany
C-0120	Standard Pressed Steel Co., Jenkintown, Pennsylvania 19046
C-0139	Steirische Gusstahlwerke AG Vienna, Austria
C-0068	Stellite Div., Cabot Corp., Kokomo, Indiana 46901 (Formerly Haynes Stellite of Union Carbide Corp.)
T	
C-0163	Techalloy Co., Inc., Rahns, Pennsylvania 19426
C-0008	Teledyne Allvac (ALLVAC), Monroe, North Carolina 28110
C-0116	Teledyne Vasco, Latrobe, Pennsylvania 15650
C-0152	Thyssen Edelstahlwerke AG, 5810 Witten (or 4150 Krefeld), West Germany (Formerly Deutsche Edelstahlwerke/Edelstahlwerk Witten AG) (See C-0125)
C-0151	Thyssen Giesserei AG, (Formerly Rheinstahl Giesserei, AG), 4630 Bochum, West Germany
C-0089	Timken Co., The, Canton, Ohio 44706
C-0075	TRW, Inc., TRW Metals Div. and Turbine and Compressor Components Div., Minerva, Ohio 45657 and Cleveland 44117 (See C-0134)
C-0134	TRW/J. H. Williams Div., Buffalo, New York 14207 (See C-0075)
C-0146	Tungsten Institute (A defunct organization)

APPENDIX A2. (Continued)

Company Code	Company Name and City
U	
C-0193	Uddeholmstahl GmbH, 4010 Hilden, West Germany
C-0020	Ugine, Aciers Electriques de Ugine, (Div. of PUG) ^(a) , Savoie, France (See C-0033)
C-0194	Ugine Edestahl GmbH, 4006 Erkrath 2 (Hochdahl), West Germany
C-0103	United Steel Co., Samuel Fox Stocksbridge Works, Sheffield, England (Now part of British Steel Corporation (See C-0148)
C-0161	Union Carbide (U.K.) Ltd., Superalloys Div., Derbyshire, SK13 9SA England
C-0072	Universal Cyclops, Specialty Steel Div., Pittsburgh, Pennsylvania 15228
C-0082	Utica Metals Division, Kelsey-Hayes Company, Utica, New York 13503 (Now Special Metals Corp. of Hartford, New York 13413) (See C-0066)
V	
C-0122	Vacuumschmelze GmbH 6450 Hanau, West Germany
C-0170	Vereinigte Edelstahlwerke AG (VEW) (Formerly Bohler, Schoeller-Bleckmann, Styria), A-1010 Vienna, Austria
C-0168	Vereinigte Deutsche Metallwerke AG (VDM), 5990 Altena/Westfalen, West Germany
C-0128	Vereinigte Deutsche Nickel-Werke AG, 5840 Schwerte (Ruhr), West Germany
C-0188	Verkaufsgesellschaft Hagener Gusstahlwerke Remy GmbH & Co. KG, 5800 Hagen, West Germany
W	
C-0119	Wah Chang Corp., Albany, Oregon 97321
C-0080	Waimet Alloys Company, (Now Howmet Turbine Component Corp.) Detroit, Michigan (See C-0022)
C-0073	Westinghouse Electric Corp., Materials Manufacturing Div., (Out of Superalloy Business) Blairsville, Pennsylvania 15717
Z	
C-0197	Zapp-Fortuna GmbH, Exportgesellschaft der Stahlwerke Südwestfalen AG, 4000 Düsseldorf 1, West Germany (See C-0153)

(a) (PUG) = Pechiney Ugine Kuhlmann Corporation.

APPENDIX A3. SUPERALLOY PRIME PRODUCERS AND PATENTEES (Numerical by Company Code)

Company Code	Company Name and City
C-0004	Crucible, Inc., Specialty Metals Div., Colt Industries, Syracuse, New York 13201 (See C-0034)
C-0005	Armco Steel Corp., Advanced Materials Division (ARMCO), Baltimore, Maryland 21203
C-0008	Teledyne Allvac (ALLVAC), Monroe, North Carolina 28110
C-0011	Republic Steel Corporation, Special Metals Div., Massillon, Ohio 44646
C-0020	Ugine, Aciers Electriques de Ugine, (Div. of PUG), Savoie, France (See C-0033)
C-0021	Avesta Jernverks Aktiebolag, 774 01 Avesta, Sweden
C-0022	Howmet Turbine Components Corporation, (Div. of PUG), Muskegon, Michigan 49440 (See C-0033)
C-0033	Pechiney-Ugine-Kuhlmann (PUG), Paris, France (See C-0022) (See C-0194)
C-0034	Crucible Materials Research Center, Colt Industries, Inc., Pittsburgh, Pennsylvania 15230 (See C-0004)
C-0042	Carpenter Technology Corporation, Reading, Pennsylvania 19603
C-0043	Sandvikens Jernverks Aktiebolag 811 01 Sandviken, Sweden (See C-0166, C-0167)
C-0064	National Aeronautics and Space Administration (NASA) Lewis Research Center, Space Technology and Materials, Cleveland, Ohio, 44135
C-0065	Ross & Catherall, Ltd., Sheffield S31 83A
C-0066	Special Metals Corp., An Allegheny Ludlum Industries Co., New Hartford, New York 13413
C-0067	Huntington Alloys Inc., Div. of International Nickel Corp., Huntington, West Virginia 25720 (See C-0071)
C-0068	Stellite Div., Cabot Corp., Kokomo Indiana 46901 (Formerly Haynes Stellite of Union Carbide Corp.)
C-0069	Martin Metals Co., (now only a license monitoring operation) Formerly a subsidiary of Martin-Marietta Corp.), Wheeling, Illinois 60090 (Previously Sierra Metals Corp.)
C-0070	Howmet Corporation (Div. of PUG) Greenwich, Connecticut 06830 (See C-0080, C-0022, C-0033, C-0112, and C-0085)
C-0071	International Nickel Co., Inc., New York, New York 10004 (See C-0067)
C-0072	Universal Cyclops, Specialty Steel Div., Pittsburgh, Pennsylvania 15228
C-0073	Westinghouse Electric Corp., Materials Manufacturing Div., (Out of Superalloy Business) Blairsville, Pennsylvania 15717
C-0074	Henry Wiggin & Co., Ltd., Hereford, HR4 9SL England
C-0075	TRW, Inc., TRW Metals Div. and Turbine and Compressor Components Div., Minerva, Ohio 45657 and Cleveland 44117 (See C-0134)
C-0076	Elektrostal, Elektrostal, near Moscow, USSR (Formerly Noginsk)
C-0077	Rolled Alloys, Inc., Detroit, Michigan 48211
C-0078	General Electric Company, Metallurgical Products Dept., Detroit, Michigan 48232 (See C-0091 and C-0174)
C-0079	Cannon-Muskegon Corp., Muskegon, Michigan 49443
C-0080	Waimet Alloys Company, (Now Howmet Turbine Component Corp.) Detroit Michigan (See C-0022)
C-0081	Sierra Metals Corporation, Wheeling, Illinois (Changed to Martin Metal Co.) (See C-0069)
C-0082	Utica Metals Division, Kelsey-Haynes Company, Utica, New York 13503 (Now Special Metals Corp. of Hartford, New York 13413) (See C-0066)
C-0083	Firth Sterling Inc., Pittsburgh, Pennsylvania 15220
C-0084	Latrobe Steel Co. (Sub. of The Timken Co.), Latrobe, Pennsylvania 15650
C-0085	Howmet Turbine Components Corp. Austenal Dover Div., Dover, New Jersey 07801 (See C-0070)
C-0086	Inco Europe Ltd. (Formerly International Nickel Ltd.) and (Previously Mond Nickel Ltd.), Sheffield and Birmingham, B16 OAJ England
C-0087	Babcock & Wilcox, Beaver Falls, Pennsylvania 15010
C-0088	Blaw-Knox Co., National Alloys, Div., Blaw-Knox, Pennsylvania 15238
C-0089	Timken Co., The, Canton, Ohio 44706
C-0090	AiResearch Manufacturing Co., Div. of Garrett Corp., (A Signal Co.), Los Angeles, California 90045
C-0091	General Electric Co., Aircraft Engine Div., Cincinnati, Ohio 45215 (See C-0078 and C-0174) 45215
C-0092	Pratt & Whitney Aircraft Div. of United Technologies Corp., Hartford, Connecticut 06101
C-0093	Rolls-Royce Mfg. Co., Derby, England
C-0094	Firth-Vickers Special Steels, Ltd., Staybrite Works, Sheffield, S9 2FU England
C-0095	Samuel Fox Company, Ltd., Stocksbridge Works, Sheffield (Now part of British Steel Corporation) (See C-0148) England

APPENDIX A3. (Continued)

Company Code	Company Name and City
C-0096	Cooper Alloy Corp., Hillside, New Jersey 07205
C-0097	Deloro Stellite (UK), Ltd., Margaret, Swindon SN3 4QA Wiltshire, England (See C-0113)
C-0098	Midvale-Heppenstal Co., Nicetown, Philadelphia, Pennsylvania 19140
C-0099	Chrysler Corp., Detroit, Michigan 48231
C-0100	International Nickel Co. of Canada Ltd., Toronto M5K 1E3 Ontario Canada (See C-0071)
C-0101	Rustless Iron and Steel Div., Armco Steel Corp., Baltimore, Maryland 21203 (See C-0005)
C-0102	Creusot-Loire (Metal Imphy) Acieries D'Imphy 75009 Paris, France (See C-0136, C-0178)
C-0103	United Steel Co., Samuel Fox Stocksbridge Works, Sheffield, England (Now part of British Steel Corporation (See C-0148) (See C-0095, C-0143)
C-0104	Mannesmann AG, 4000, Düsseldorf 1 West Germany
C-0105	Gebr. Böhler & Co. AG, 4000, Düsseldorf-Oberkassel, West Germany
C-0106	Hadfields, Ltd., Sheffield 9 England
C-0107	Eastern Stainless Steel Co., Div. of Eastmet Corp., Baltimore, Maryland 21203
C-0108	General Motors Corp Detroit, Michigan 48202
C-0109	Joslyn Stainless Steels Co., Div. of Joslyn Mfg. and Supply Co., Ft. Wayne, Indiana 46801
C-0110	Du Pont de Nemours & Co., E.I., Wilmington, Delaware 19898 (No proprietary alloys)
C-1011	Kawecki Chemical Co., Boyertown, Pennsylvania
C-0112	Howmet Turbine Components Corp., Alloy Division, Dover, New Jersey 07801 (See C-0070)
C-0113	Deloro Stellite Ltd., Div. of Canadian Oxygen Ltd., Belleville, Ontario, K8N 5C4 Canada (See C-0097)
C-0114	Shawinigan Chemicals, Ltd., Montreal, Canada
C-0115	Mitsubishi Metal Corporation, Okagawa Plant No. 5-2 1-Chome Ohte-Machi, Chiyada-Ku Tokyo 100, Japan
C-0116	Teledyne Vasco, Latrobe, Pennsylvania 15650
C-0117	Industria Lamiera Speciali 20159 Milano, Italy
C-0118	Koppers Co., Inc., Pittsburgh, Pennsylvania 15219
C-0119	Wah Chang Corp., Albany, Oregon 97321
C-0120	Standard Pressed Steel Co., Jenkintown, Pennsylvania 19046
C-0121	Pose-Marre Edelstahlwerk GmbH, 10006 Erkrath-Düsseldorf, West Germany
C-0122	Vacuumschmelze GmbH 6450 Hanau, West Germany
C-0123	Fried. Krupp Steel Works, Essen, West Germany (See C-0162)
C-0124	Heinkel-Hirth Co., Berlin, West Germany
C-0125	Deutsche Edelstahlwerke AG, (DEW), 4150 Krefeld, West Germany (Now Thyssen Edelstahlwerke AG) (See C-0152)
C-0126	Bergische Stahl-Industrie, (BSI) 5630 Remscheid, West Germany
C-0127	Edelstahl Witten Werks AG., 5810 Witten, West Germany
C-0128	Vereinigte Deutsche Nickel-Werke AG, 5840 Schwerte (Ruhr), West Germany
C-0129	Schneider, Virgo, Paris, France
C-0130	Schneider & Cie, Paris, France
C-0131	Jodots Freres, Ets., Boloeil, Belgium
C-0132	Soc. Anon. de Commentry Fourchambault et Decaseville, Paris, France
C-0133	Société Ferry-Captain, Joinville, (Haute Marne), France
C-0134	TRW/J.H. Williams Div., Buffalo, New York 14207 (See C-0075)
C-0135	Aubert et Duval, 92200 Neuilly-sur-Seine, Paris, France
C-0136	Creusot-Loire Division Forges-Estampage 75009 Paris, France (See C-0102, C-0178)
C-0137	Abex Corp., Engineered Products Div., Elyria, Ohio 44035
C-0138	Gebr. Böhler & Co. AG, A-1010 Vienna, Austria
C-0139	Steirische Gusstahlwerke AG Vienna, Austria
C-0140	A.E. Turbine Components, Ltd., Yeadon, Leeds, LS19 7AY England (A.E. = Associated Engineering)
C-0141	Poldi Steel Works, Prague, Czechoslovakia
C-0142	Nippon-Kokan K.K. (Kabushiki Kaisha Technical Research Center), Kawasaki-Ku, Kawasaki, 210 Japan

APPENDIX A3. (Continued)

Company Code	Company Name and City
C-0143	Sheepbridge Alloy Castings, Ltd., Sutton-in-Ashfield, Notts, England
C-0144	Bofors AB, Ackers, 31 Ackers, Styckebruck, Sweden
C-0145	Nyby Bruks Aktiebolag, Nyby Bruk, Sweden
C-0146	Tungsten Institute (A defunct organization)
C-0147	Jessop-Saville, Ltd., Sheffield, S9 2SS England
C-0148	British Steel Corp., Special Steels Div., Sheffield, S3 8AZ England
C-0149	Main Metal Ltd., London W.C.2, England
C-0150	Cobalt Information Center, Brussels, Belgium (A defunct organization)
C-0151	Thyssen Giesserei AG, (Formerly Rheinstahl Giesserei, AG), 4630 Bochum, West Germany
C-0152	Thyssen Edelstahlwerke AG, 5810 Witten (or 4150 Krefeld), West Germany (Formerly Deutsche Edelstahlwerke/Edelstahlwerk Witten AG) (See C-0125)
C-0153	Stahlwerke Südwestfalen AG, 5900 Sieger-Geisweid, West Germany
C-0154	Ford Motor Company, Detroit, Michigan 48121
C-0155	Fansteel Inc. of H. K. Porter Company, North Chicago, Illinois 60064
C-0156	Cabot Alloys Europe Ltd., Northhamtonshire, NN17 2AZ England (See C-0068)
C-0157	Cameron Iron Works Inc., Houston, Texas 77001
C-0158	Firth-Brown Ltd., Atlas Works, Sheffield, S4 7SU England
C-0159	Howmet Alloys International, Exeter, EX2 7LG England (See C-0070)
C-0160	Roechling Burbach GmbH, 6620 Voalkinger/Saar, West Germany
C-0161	Union Carbide (U.K.) Ltd., Superalloys Div., Derbyshire, SK13 9SA England
C-0162	Fried, Krupp Hüttenwerke AG (FKH), 4630 Bochum, West Germany
C-0163	Techalloy Co., Inc., Rahns, Pennsylvania 19426
C-0164	Sorcery Metals, Delray Beach, Florida 33444 (See C-0165)
C-0165	Sorcery Metals (UK) Ltd., Marple Stockport SK6 6B0, England (See C-0164)
C-0166	Sandvik Steel Inc., Fairlawn New Jersey 07410 (See C-0043, C-0167)
C-0167	Sandvikstahl GmbH, Dusseldorf, West Germany (See C-0166, C-0043)
C-0168	Vereinigte Deutsche Metallwerke AG (VDM), 5990 Altena/Westfallen, West Germany
C-0169	Certified Alloy Products Inc., Long Beach, California 90801
C-0170	Vereinigte Edelstahlwerke AG (VEW) (Formerly Bohler, Schoeller-Bleckmann, Styria), A-1010 Vienna, Austria
C-0171	Canadian Quebec Metallurgical Corporation, Quebec, Canada
C-0172	Fansteel Advanced Structures Division, Los Angeles, California 90054
C-0173	High Duty Alloys Forging Ltd. (HDAF), Redditch Worcestershire B97 6ER England
C-0174	General Electric Company, Gas Turbine Div., Engineering and Manufacturing, Schenectady, New York 12345 (See C-0078 and C-0091)
C-0175	Almenit-Stahl-Gesellschaft, 8986 Mittelberg (Kleinwalsertal), West Germany
C-0176	E. A. Brand & Co., 2800 Bremen 1, West Germany
C-0177	Edelstahlwerke Buderus AG, 6330 Wetzlar, West Germany
C-0178	Creusot-Loire GmbH, 4000 Düsseldorf, West Germany (See C-0102, C-0136)
C-0179	Deutsche Gilby-Fodor GmbH, 6600 Saarbrücken 3, West Germany
C-0180	August Dreckshage Eisen und Stahl, 4800 Bielefeld, West Germany
C-0181	Estanit GmbH KG, Edelstahl-und Gusstechnik, 4330 Mülheim (Ruhr)-Raadt, West Germany
C-0182	Fürstlich Hohenzollernsche Hüttenverwaltung Laucherthal, 7480 Sigmaringen, West Germany
C-0183	Hoesch Estel, Hoesch Werke Hohenlimburg-Schwerte AG, 5850 Hohenlimburg, West Germany
C-0184	Gebrüder Höver, Edelstahlwerk, 5251 Kaiserau, West Germany
C-0185	Koerver & Nehring GmbH, 4150 Krefeld, West Germany
C-0186	Lachmann & Steingrube, 2000 Hamburg 11, West Germany
C-0187	Heinrich Reining GmbH, 4000 Dusseldorf 1, West Germany

APPENDIX A3. (Continued)

Company Code	Company Name and City
C-0188	Verkaufsgesellschaft Hagener Gusstahlwerke Remy GmbH & Co. KG, 5800 Hagen, West Germany
C-0189	Schmidt + Clemens, Edestahlwerk, 5251 Kaiserau, Bezirk Köln, über Engelskirchen, West Germany
C-0190	Schmolz + Bickenbach, 4000 Dusseldorf 1, West Germany
C-0191	Schoeller-Bleckmann Stahlwerke GmbH, 4044 Kaarst über Neuss/Düsseldorf, West Germany
C-0192	Heinr, Aug. Schulte AG, 4600 Dortmund 1, West Germany
C-0193	Uddeholmstahl GmbH, 4010 Hilden, West Germany
C-0194	Ugine Edestahl GmbH, 4006 Erkrath 2 (Hochdahl), West Germany (See C-0022, C-0033)
C-0195	Emil Weingärtner & Co. KG, Edelstahlgrosshandl, 2000 Hamburg 54, West Germany
C-0196	Robert Zapp, Edelstähle, Zapp-Haus, 4000 Düsseldorf, West Germany
C-0197	Zapp-Fortuna GmbH, Exportgesellschaft der Stahlwerke Südwestfalen AG, 4000 Düsseldorf 1, West Germany (See C-0153)

APPENDIX A4. UNIFIED NUMBERING SYSTEM FOR SUPERALLOYS (U.S.) [Numerical by UNS Number]

Unified Numbering System	Common Alloy Name(s) or Designation(s)	Chemical Composition, percent	Cross Reference of U.S. Specifications
K63198	Iron-Base Superalloy (19-9 DL)	C 0.28-0.35;Cr 18.00-21.00;Cb 0.25-0.60;Cu 0.50 max; Mn 0.75-1.50;Mo 1.00-1.75;Ni 8.00-11.00;P 0.40 max; Si 0.30-0.80;S 0.30 max;Ti 0.10-0.35;W 1.00-1.75	AISI 651; AMS 5526, 5527, 5579, 5720, 5721, 5722; SAE J467 (19-9 DL)
K63199	Iron-Base Superalloy (19-9 DX or 19-9 W-Mo)	C 0.28-0.35;Cr 18.00-21.00;Cu 0.50 max;Mn 0.75-1.50; Mo 1.25-2.00;Ni 8.00-11.00;P 0.40 max;Si 0.30-0.80; S 0.030 max; Ti 0.40-0.75;W1.00-1.75	AISI 652; AMS 5538, 5539, 5724, 5729, 5782, 5783; SAE J467 (19-9 DX)
K64299	Iron-Base Superalloy (29-9)	C 0.08-0.15;Cr 27.00-31.00;Cu 0.50 max;Mn 1.00-2.00; Mo 0.50 max;Ni 8.50-10.50;P 0.040 max;Si 0.75 max; S 0.030 max	AMS 5784, 5785
K65770	Iron-Base Superalloy (AFC77)	C 0.12-0.17;Cr 13.50-14.50;Co 13.00-14.00;Mn 0.30 max;Mo 4.50-5.50;Ni 0.30-0.70;P 0.015 max;Si 0.25 max;S 0.015 max;V 0.10-0.30	AMS 5748
K66220	Iron-Base Superalloy (Discaloy)	Al 0.35 max;B0.0010-0.010;C 0.08 max;Cr 12.00-15.00;Cu 0.50 max;Mn 1.50 max;Mo 2.50-3.50; Ni 24.00-28.00;P 0.040 max;Si 1.00 max;S 0.030 max;Ti 1.55-2.00	AISI 662; AMS 5733; ASTM A638 (662); SAE J467 (Discaloy)
K66286	Iron-Base Superalloy (A286)	Al 0.35 max;B 0.0010-0.010;C 0.08 max;Cr 13.50-16.00;Mn 2.00 max;Mo 1.00-1.50;Ni 24.00-27.00; P 0.040 max;Si 1.00 max;S 0.030 max;Ti 1.90-2.35;V 0.10-0.50	AISI 660; AMS 5525, 5731, 5732, 5734, 5735, 5736, 5737, 5804, 5805; ASTM A638 (660); SAE J467 (A286)
K66545	Iron-Base Superalloy (W545)	Al 0.25 max;B 0.025-0.12;C 0.08 max;Cr 12.00-15.00;Cu 0.25 max;Mn 1.25-2.00;Mo 1.25-2.25; Ni 24.00-28.00;P 0.040 max;Si 0.10-0.80;S 0.030 max;Ti 2.70-3.30	AISI 665; AMS 5543, 5741; SAE J467 (W545)
K66979	Iron-Nickel-Base Superalloy (D-979)	Al 0.75-1.30;B 0.008-0.016;C 0.08 max;Cr 14.00-16.00;Mn 0.75 max;Mo 3.00-4.50;Ni 42.00-48.00; P 0.040 max;Si 0.75 max;S 0.040 max;Ti 2.70-3.30;W 3.00-4.50	AISI 664; AMS 5509, 5746; SAE J467 (D-979)
N06002	Hastelloy X, Ni-Cr Solid Solution Strengthened	C 0.05-0.15;Cr 20.5-23.0;Co 0.5-2.5;Fe 17.0-20.0; Mn 1.00 max;Mo 8.0-10.0;Ni bal;P 0.040 max; Si 1.00 max;S 0.030 max;W 0.20-1.0	AMS 5390, 5536, 5587, 5588, 5754, 5798, 5799, 7237; ANSI H34.15; ASME SB435; ASTM B435, A567, B366, B572; AISI 680

APPENDIX A4. (Continued)

Unified Numbering System	Common Alloy Name(s) or Designation(s)	Chemical Composition, percent	Cross Reference of U.S. Specifications
N06102	IN-102, Ni-Cr Solid Solution Strengthened	Al 0.30-0.60;B 0.003-0.008;C 0.08 max;Cr 14.0-16.0; Cb 2.75-3.25;Fe 5.0-9.0;Mg 0.01-0.05;Mn 0.75 max; Mo 2.75-3.25;Ni bal;P 0.010 max;Si 0.40 max;S 0.010 max;Ti 0.40-0.70;W 2.75-3.25;Zr 0.01-0.05	ANSI H34.21, H34.27, H34.28; ASTM B445, B518, B519
N06333	RA333, Ni-Cr Solid Solution Strengthened	C 0.08 max;Cr 24.00-27.00;Co 2.50-4.00;Cu 0.50 max Fe bal;Pb 0.025 max;Mn 2.00 max;Mo 2.50-4.00; Ni 44.00-47.00;P 0.030 max;Si 0.75-1.50;S 0.030 max; Sn 0.025 max;W 2.50-4.00	AMS 5593, 5717
N06601	Inconel Alloy 601, Ni- Cr Solid Solution Strengthened	Al 1.0-1.7;C 0.1 max;Cr 21.0-25.0;Cu 1.0 max;Fe bal; Mn 1.0 max;Ni 58.0-63.0;Si 0.50 max;S 0.015 max	AMS 5715, 5870
N06625	Inconel Alloy 625, Ni- Cr Solid Solution Strengthened	Al 0.40 max;C 0.10 max;Cr 20.0-23.0;Cb 3.15-4.15; Fe 5.0 max;Mn 0.50 max;Mo 8.0-10.0;Ni bal;P 0.015 max;Si 0.50 max;S 0.015 max;Ti 0.40 max	AMS 5599, 5666, 5837; ANSI H34.19, H34.20, 34.22; ASME SB443, SB444, SB446;ASTM B443, B444, B446
N07001	Waspaloy, Ni-Cr Precipitation Hardenable	Al 1.20-1.60;B 0.003-0.01;C 0.03-0.10;Cr 18.00- 21.00;Co 12.00-15.00;Cu 0.50 max;Fe 2.00 max; Mn 1.00 max;Mo 3.50-5.00;Ni bal;P 0.030 max; Si 0.75 max;S 0.030 max;Ti 2.75-3.75;Zr 0.02-0.12	AMS 5544, 5586, 5704, 5706, 5707, 5708, 5709, 5828, 7471; ASTM A637; AISI 685
N07041	Rene 41, Ni-Cr Precipitation Hardenable	Al 1.40-1.80;B 0.0030-0.010;C 0.12 max;Cr 18.00- 20.00;Co 10.00-12.00;Fe 5.00 max;Mn 0.10 max; Mo 9.00-10.50;Ni bal;Si 0.50 max;S 0.015 max; Ti 3.00-3.30	AMS 5399, 5545, 5712, 5713, 5800, 7469; AISI 683
N07080	Nimonic Alloy 80A, Ni-Cr Precipitation Hardenable	Al 1.0-1.8;B 0.008 max;C 0.10 max;Cr 18.0-21.0; Co 2.0 max;Cu 0.2 max;Fe 3.0 max;Mn 1.0 max; Ni bal;Si 1.0 max;S 0.015 max;Ti 1.8-2.7	ASTM A637
N07090	Nimonic Alloy 90, Ni-Cr Precipitation Hardenable	Al 0.8-2.0;C 0.13 max;Cr 18.0-21.0;Co 15.0-21.0; Fe 3.0 max;Mn 1.0 max;Ni bal;Si 1.5 max;Ti 1.8-3.0	
N07252	M252, Ni-Cr Precipitation Hardenable	Al 0.75-1.25;B 0.003-0.01;C 0.10-0.20;Cr 18.00- 20.00;Co 9.00-11.00;Fe 5.00 max;Mn 0.50 max; Mo 9.00-10.50;Ni bal;P 0.015 max;Si 0.50 max; S 0.015 max;Ti 2.25-2.75	AMS 5551, 5756, 5757; ASTM A637; AISI 689

APPENDIX A4. (Continued)

Unified Numbering System	Common Alloy Name(s) or Designation(s)	Chemical Composition, percent	Cross Reference of U.S. Specifications
N07500	Udimet 500, Ni-Cr Precipitation Hardenable	Al 2.50-3.25;B 0.003-0.01;C 0.15 max;Cr 15.00- 20.00;Co 13.00-20.00;Cu 0.15 max;Fe 4.00 max; Mn 0.75 max;Mo 3.00-5.00;Ni bal;P 0.015 max; Si 0.75 max;S 0.015 max;Ti 2.50-3.25	AMS 5384, 5751, 5753; ASTM A637, A567; AISI 684
N07702	Inconel Alloy 702, Ni-Cr Precipitation Hardenable	Al 2.75-3.75;C 0.10 max;Cr 14.0-17.0;Cu 0.5 max; Fe 2.0 max;Mn 1.0 max;Ni bal;Si 0.7 max;S 0.01 max; Ti 0.25-1.00	AMS 5550
N07713	IN-713, Ni-Cr Precipitation Hardenable	Al 5.5-6.5;B 0.005-0.015;C 0.08-0.20;Cr 12.00-14.00; Cb 1.8-2.8;Fe 2.50 max;Mn 0.25 max;Mo 3.8-5.2; Ni bal;Si 0.50 max;Ti 0.5-1.0;Zr 0.05-0.15	AMS 5377, 5391; ASTM A567
N07718	Inconel Alloy 718, Ni-Cr Precipitation Hardenable	Al 0.20-0.80;B 0.006 max;C 0.08 max;Cr 17.0-21.0; Co 1.00 max;Cb 4.75-5.50;Cu 0.30 max;Fe bal; Mn 0.35 max;Mo 2.80-3.30;Ni 50.0-55.0;P 0.015 max; Si 0.35 max;S 0.015 max;Ti 0.65-1.15	AMS 5383, 5589, 5590, 5596, 5597, 5662, 5663, 5664, 5832; ASTM A637, A670; MIL SPEC MIL-N- 24469
N07750	Inconel Alloy X-750, Ni-Cr Precipitation Hardenable	Al 0.40-1.0;C 0.08 max;Cr 14.0-17.0;Cb 0.70-1.20; Cu 0.5 max;Fe 5.0-9.0;Mn 1.0 max;Ni 70.0 min; Si 0.5 max;S 0.01 max;Ti 2.25-2.75	AMS 5542, 5582, 5598, 5668, 5669, 5670, 5671, 5698, 5699; ASME SA637; ASTM A637; MIL SPEC MIL-N-7786, MIL-N-8550, MIL-N-24114, MIL-S- 23192; AISI 688
N08800	Incoloy Alloy 800, Ni-Fe-Cr Solid Solution Strengthened	Al 0.15-0.60;C 0.10 max;Cr 19.0-23.0;Cu 0.75 max; Fe bal;Mn 1.5 max;Ni 30.0-35.0;Si 1.0 max;Ti 0.15- 0.60	AMS 5766, 5871; ANSI H34.42, H34.15, H34.41, H34.39, H34.40, H34.23, H34.24; ASME SB163, SB407, SB409, SB408; ASTM B163, B366, B407, B409, B408, B514, B515, B564
N08801	Incoloy Alloy 801, Ni-Fe-Cr Solid Solution Strengthened	C 0.10 max;Cr 19.0-22.0;Cu 0.5 max;Fe bal;Mn 1.5 max;Ni 30.0-34.0;Si 1.0 max;S 0.015 max; Ti 0.75-1.5	AMS 5552, 5742
N08825	Incoloy Alloy 825, Ni-Fe-Cr Solid Solution Strengthened	Al 0.2 max;C 0.05 max;Cr 19.5-23.5;Cu 1.5-3.0;Fe bal; Mn 1.0 max;Mo 2.5-3.5;Ni 38.0-46.0;Si 0.5 max; S 0.03 max;Ti 0.6-1.2	ASME SB163, SB423, SB424, SB425; ASTM B163, B423, B424, B425
N09027	CG27, Ni-Fe-Cr Precipitation Hardenable	Al 1.45-1.75;B 0.003-0.015;C 0.02-0.08;Cr 12.50- 14.00;Cb 0.60-1.10;Fe bal;Mn 0.25 max;Mo 5.00-6.00; Ni 36.50-39.50;P 0.015 max;Si 0.25 max;S 0.015 max; Ti 2.30-2.70	AMS 5633, 5634

APPENDIX A4. (Continued)

Unified Numbering System	Common Alloy Name(s) or Designation(s)	Chemical Composition, percent	Cross Reference of U.S. Specifications
N09706	Inconel Alloy 706, Ni-Fe-Cr Precipitation Hardenable	Al 0.40 max;B 0.006 max;C 0.06 max;Cr 14.5-17.5; Cb 25.-3.3;Cu 0.30 max;Fe bal;Mn 0.35 max;Ni 39.0 44.0;P 0.020 max;Si 0.35 max;S 0.015 max;Ti 1.5-2.0	AMS 5605, 5606, 5701, 5702, 5703
N09901	Incoloy Alloy 901, Ni-Fe-Cr Precipitation Hardenable	Al 0.35 max;B 0.010-0.020;C 0.10 max;Cr 11.00- 14.00;Cu 0.50 max;Fe bal;Mn 1.00 max;Mo 5.00-7.00; Ni 40.00-45.00;Si 0.60 max;S 0.030 max;Ti 2.35-3.10	AMS 5660, 5661
N09979	D979, Ni-Fe-Cr Precipitation Hardenable	Al 0.75-1.30;B 0.008-0.016;C 0.08 max;Cr 14.00- 16.00;Fe bal;Mn 0.75 max;Mo 3.75-4.50;Ni 42.00- 48.00;P 0.015 max;Si 0.75 max;S 0.015 max;Ti 2.70- 3.30;W 3.75-4.50;Zr 0.050 max	AMS 5509, 5746; AISI 644
N10001	Hastelloy B, Ni-Mo Solid Solution Strengthened	C 0.12 max;Cr 1.00 max;Co 2.50 max;Fe 6.00 max; Mn 1.00 max;Mo 26.0-33.0;Ni bal;P 0.040 max; Si 1.00 max;S 0.030 max;V 0.60 max	AMS 5396; ANSI H34.11, H34.13, H34.15, G81.10, G81.34; ASME SB333, SB335; ASTM B333, B335, B366, A296, A494
N10002	Hastelloy C, Ni-Mo Solid Solution Strengthened	C 0.08 max;Cr 14.5-16.5;Co 2.5 max;Fe 4.0-7.0; Mn 1.00 max;Mo 15.0-17.0;Ni bal;P 0.040 max;Si 1.00 max;S 0.030 max;W 3.0-4.5;V 0.35 max	AMS 5388, 5389, 5530, 5750; ANSI G81.10, G81.34, G81.40, H34.14, H34.12, H34.15; ASME SFA5.14, SFA5.11, SB334, SB336; ASTM A296, A494, A567, B334, B336, B366; AWS A5.14
N10004	Hastelloy W, Ni-Mo Solid Solution Strengthened	C 0.12 max;Cr 4.00-6.00;Fe 4.00-7.00;Mn 1.00 max; Mo 23.00-26.00;Ni bal;P 0.050 max;Si 1.00 max; S 0.050 max;V 0.60 max	AMS 5755, 5786, 5787
N10276	Hastelloy C276, Ni- Mo Solid Solution Strengthened	C 0.02 max;Cr 14.5-16.5;Co 2.5 max;Fe 4.0-7.0; Mn 1.0 max;Mo 15.0-17.0;Ni bal;P 0.030 max;Si 0.05 max;S 0.030 max;W 3.0-4.5;V 0.35 max	ASTM B574, B575
N13100	IN-100, Ni-Co Precipitation Hardenable	Al 5.00-6.00;B 0.01-0.02;C 0.15-0.20;Cr 8.0-11.0; Co 13.0-17.0;Fe 1.0 max;Mn 0.20 max;Mo 2.0-4.0; Ni bal;Si 0.20 max;S 0.015 max;Ti 4.50-5.00;V 0.70- 1.20;Zr 0.03-0.09	AMS 5397
R30021	Stellite 21	B 0.007 max;C 0.20-0.30;Cr 25.00-29.00;Co bal; Fe 3.00 max;Mn 1.00 max;Mo 5.00-6.00;Ni 1.75- 3.75;Si 1.00 max	AMS 5385; ANSI G81.40; ASTM A567(F-75)

APPENDIX A4. (Continued)

Unified Numbering System	Common Alloy Name(s) or Designation(s)	Chemical Composition, percent	Cross Reference of U.S. Specifications
R30023	Stellite 23	C 0.40 nom;Cr 24 nom;Co bal;Fe 1.0 nom;Mn 0.3 nom; Ni 2 nom;Si 0.6 nom;W 5 nom	AMS 5375
R30027	Stellite 27	C 0.40 nom;Cr 25 nom;Co bal;Fe 1.0 nom;Mn 0.3 nom; Ni 32 nom;Si 0.6 nom	AMS 5378
R30030	Stellite 30	C 0.45 nom;Cr 26 nom;Co bal;Fe 1.0 nom;Mn 0.6 nom; Ni 15 nom;Si 0.6 nom	AMS 5380
R30031	Stellite 31	C 0.45-0.55;Cr 24.50-26.50;Co bal;Fe 2.00 max;Mn 1.00 max;Ni 9.50-11.50;Si 1.00 max;W 7.00-8.00	AMS 5382; ANSI G81.40; ASTM A567
R30155	N-155	C 0.08-0.16;Cr 20.00-22.50;Co 18.50-21.00;Cb 0.75- 1.25;Fe bal;Mn 1.00-2.00;Mo 2.50-3.50;Ni 19.00-21.00; N 0.20 max;P 0.040 max;Si 1.00 max;S 0.030 max W 2.00-3.00	AMS 5376, 5531, 5532, 5585, 5768, 5769, 5794, 5795; ANSI G81.40; ASTM A639, A567
R30188	HS188	C 0.05-0.15;Cr 20.00-24.00;Co bal;Fe 3.00 max;La 0.03- 0.15;Mn 1.25 max;Ni 20.00-24.00;Si 0.20-0.50; W 13.00-16.00	AMS 5608, 5772, 5801
R30605	L-605	C 0.05-0.15;Cr 19.0-21.0;Co bal;Fe 3.0 max;Mn 2.00 max;Ni 9.0-11.0;Si 1.00 max;W 14.0-16.0	AMS 5537, 5759, 5796, 5797, 7236; ASTM F90
R30816	S-816	C 0.32-0.42;Cr 19.00-21.00;Co 40.00 min;Cb 3.50- 4.50;Fe 5.00 max;Mn 1.00-2.00;Mo 3.50-4.50; Ni 19.00-21.00;P 0.040 max;Si 1.00 max;S 0.030 max; W 3.50-4.50	AMS 5534, 5765; ASTM A639
S41800	Martensitic Cr-W-Ni Stainless and Heat Resisting Steel	C 0.15-0.20;Cr 12.00-14.00;Mn 0.50 max;Ni 1.80-2.20; P 0.040 max;Si 0.50 max;S 0.030 max;W 2.50-3.50	AMS 5508, 5616, 5817; SAE J467 (Greek Ascoloy)

APPENDIX A5. ADDRESSES OF SELECTED STANDARD ORGANIZATIONS OF THE WORLD WITH THE RESPECTIVE
SYMBOL (ACRONYM) OF THE ORGANIZATION AND THE STANDARDS OR SPECIFICATIONS
(ALPHABETICAL BY COUNTRY)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
Australia	AS	SAA	Standards Association of Australia, 80-86 Arthur Street, North Sidney, N.S.W. 2060, Australia.
Austria	ONORM	ON	Oesterreichisches Normungsinstitut, Leopoldsgasse 4, Postfach 130, A-1021 Wien 2, Austria.
Belgium	NBN	IBN	Institut Belge de Normalisation, 29 Avenue de la Brabanconne, B-1040 Bruxelles 4, Belgium.
Canada	CAN	SCC	Standards Council of Canada, International Standardization Branch, Meadowvale Corporate Centre, 2000 Argentia Road, Suite 2-401, Mississauga, Ontario L5N 1P7, Canada.
China (Mainland) People's Republic of China	GB YB	--	People's Republic of China, Ministry of Metallurgical Industry, Peking, China.
China (Taiwan, Formosa)	CNS	CNS	National Bureau of Standards, Ministry of Economic Affairs, 5th Floor, Hsin Kuang Life Insurance Bldg., Taipei, Taiwan 104, Republic of China, Taiwan.
Czechoslovakia	ON	CSN	Urad pro normalizaci a mereni, Václavské náměstí 19, 113 47 Praha 1, Czechoslovakia. "or" FERROMET Foreign Trade Corp., P.O. Box 779, Prague 1, Czechoslovakia.
Denmark	DS	DS	Dansk Standardiseringsraad, Aurehøjvej 12, DK-2900 Hellerup, Denmark.
Eastern European Economic Community	EE	CMEA COMCON	CMEA, Council for Material Economic Assistance (Bulgaria, Poland, Czechoslovakia, East Germany, Hungary, Mongolia, Yugoslavia and Russia) Prospekt Katilima 56 Moscow, USSR, "or" INTERMETAL, Budapest, Hungary.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
European Economic Community	EURONORM EN	EEC	Commission des Communautés Européennes, Rue de la Loi 200, B-1040 Brussel, Belgium, "or" interested residents of third countries are asked to contact the Office for Official Publications of the European Communities, Bolte postale 1003, Luxembourg 1, Belgium, "or" copies of Proposed Euronome (prEN) may be obtained through Association Européenne des Constructeurs de Matériel Aérospatiale (AECMA), 88 Ed. Malesherbes, 75008 Paris, France.
Finland	SFS	SFS	Suomen Standardisoimisliitto, P.O. Box 205, SF-00121 Helsinki 12, Finland.
France	NF AFNOR	AFNOR	Association Française de Normalisation, Tour Europe, Cedex 7, 92080 Paris-La Defense, France. "or" Chambre Syndicale des Producteurs D'Aciers Fins et Spéciaux, 12, rue de Madrid, Paris (VIIe), France.
France	AECMA	AECMA	Association Européenne Constructeurs de Matériel Aérospatial, (European Association of Airframe Manufacturers), (formerly AICMA: Association Internationale des Constructeurs de Matériel Aérospatial), 88 Bd. Malesherbes, 75008 Paris, France.
France	AIR	AIR	Ministere de la Defense, Délégation Generale Pour L'Armement, Direction Technique des Constructions Aéronautiques, Service Technique Aéronautique, 4, avenue de la Porte-d'Issy—75753 Paris CEDEX 15, France, "or" Ministère des Armees, Repertoire des Regiments AIR. Documents are available from the Center de Documentation de L'Armement (CEDOCAR), 26 BD Victor, 75996, Paris Armees, France.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
Germany/East (GDR) Deutsches Democratic Republic (DDR)	TGL	TGL	East German Technical Specifications, Council for Standardization, Berlin, DDR, East Germany.
Germany/West	DIN Werkstoffe Number (DIN)	DNA	Deutsches Institut für Normung, Burggrafenstrasse 4-7, Postfach 1107, 1 Berlin 30, West Germany.
Bundersrepublik Deutschland	German Material Number	--	Verein Deutscher Eisenhüttenleute, Breite Strasse 27, 4000 Düsseldorf 1, West Germany.
Germany/West	Werkstoffe (WDL) Werkstoffe (LN) German Aeronautical Material Number	-- -- --	Luftfahrt Werkstoffe Specifications: (also referred to as Aviation Aircraft Materials). These specifications are also referred to as (WDL) or (LN) Werkstoff- Leistungsblätter der Deutschen Luftfahrt (Material Properties for the German Aviation Industry). These specifications are also referred to as B.W.B. Bundesamt für Wehrtechnik und Beschaffung (BWB), (Federal Defense Engineering and Procurement Department) 5400 Koblenz 1, Postfach 7360, West Germany.
Germany/West	SEW	SEW	Stahl-Eisen-Werkstoffblätter des Vereins Deutscher Eisenhüttenleute.
Germany/West	VdTUV	VdTUV	Vereinigung der Technischen Überwachungsvereine Ev, (German Association for Technical Supervision), Postfach 1790, Rottstrasse 17, 4300 Essen, West Germany.
Greece	--	NHS	Hellenic Republic, Ministry of Industry, Standardization Division, 80 Michalakopoulou Street, Athens, Greece.
Hungary	MSZ	MSZH	Magyar Szabványügyi Hivatal, Postafiók 24, 1450 Budapest 9, Hungary. "or" METALIMPEX, P.O. Box 330, Budapest 62, Hungary.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
India	IS	ISI	Indian Standards Institution, Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110001, India.
International	ISO	ISO	International Organization for Standardization, 1, Rue de Varembe, 1211 Geneve 20, Switzerland/Suisse.
International (NATO)	STANAG	STANAG	NATO (STANAG) Specifications, care of U.S. Military Specifications, Engineering Specifications and Standards Division, Naval Air Engineering Center, Philadelphia, Pa. 19112, USA.
Iran	ISIRI	ISIRI	Institute of Standards and Industrial Research of Iran, Ministry of Industries and Mines, P.O. Box 2937, Teheran, Iran.
Iraq	--	IOS	Iraqi Organization for Standards, Planning Board, P.O. Box 11185, Baghdad, Iraq.
Ireland	IS	IIRS	Institute for Industrial Research and Standards, Glasnevin House, Ballymun Road, Dublin-9, Ireland.
Israel	--	SII	Standards Institution of Israel, 42 University Street, Tel Aviv 69977, Israel.
Italy	UNI	UNI	Ente Nazionale Italiano di Unificazione, Piazza Armando Diaz 2, 1 20123 Milano, Italy. "or" Centro Inox, piazza Velasca, 10, 20122 Milan, Italy.
Japan	JIS	JISC	Japanese Industrial Standards Committee, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, 1-3-1 Kasumigaseki Chiyodaku, Tokyo, Japan. "or" Japanese Standards Association, 1-24, Akasaka 4, Minato- ku, Tokyo 107, Japan.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
Korea (South)	KS	KBS	Bureau of Standards, Industrial Advancement Administration, Youngdeungpo-ku, Seoul, Republic of Korea.
Mexico	DGN	DGN	Direccion General de Normas, Av. Cuauhtemoc No. 80, Mexico 7, D.F., Mexico.
Netherlands	NEN	NNI	Nederlands Normalisatie-Instituut, Polakweg 5, Rijswijk, Netherlands.
New Zealand	--	SANZ	Standards Association of New Zealand, Private Bag, Wellington, New Zealand.
Norway	NS	NSF	Norges Standardiseringsforbund, Haakon VII's gt. 2, N-Oslo 1.
Pakistan/West	PS	PSI	Pakistan Standards Institution, 39 Garden Road, Saddar, Karachi-3, West Pakistan.
Poland	PN	PKNIM	Polski Komitet Normalizacji i Miar, Ul, Electoraina 2, 00-139 Warszawa, Poland.
Portugal	NP	IGPAI	Reparticao de Normalizacao, Avenida de Berna 1, Lisboa-1, Portugal.
Republic of South Africa	SABS	SABS	South African Bureau of Standards, Private Bag X191, Pretoria 0001, Republic of South Africa.
Rhodesia	--	--	Standards Association of Central Africa, Coventry Road, Workington P.O. Box 2259, Salisbury 4, Rhodesia.
Romania	STAS	IRS	Institutul Roman de Standardizare, Casuta Postala 6214, Bucarest 1, Romania, "or" METALIMPORTEXPORT, 8 Edgar Quinet Street, Bucharest, Romania.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
Saudi Arabia	---	SASO	Saudi Arabian Standards Organization, Airport Street, P.O. Box 3437, Riyadh, Saudi Arabia.
Spain	UNE	IRANOR	Instituto de Racionalizacion y Normalizacion, Serrano 150, Madrid 6, Spain.
Spain	---	INTA	Instituto Nacional de Tecnica Aeroespacial Paseo Pintor Rosales, 34, Madrid 8, Spain.
Spain	---	CENIM	Ciudad Universitaria, Madrid 3, Spain (Formerly IHA).
Spain	---	IHA	Instituto del Hierro, del Acero Madrid, Spain. Now CENIM.
Sweden	---	SIS	Sveriges Standardiseringskommission, Box 3295, S-103 66 Stockholm, Sweden.
Sweden	RSABS FMV FMV-F	RSABS FMV- FMV-F	Försvaets Materielverk FMV-F Royal Swedish Air Board and Defense Materials, P.O. 104 50 Stockholm, Sweden.
Switzerland	SNV	SNV	Association Suisse de Normalisation, Kirchenweg 4, Postfach, 8032 Zurich, Switzerland.
Turkey	TS	TSE	Türk Standardlari Enstitüsü, Necatibey Caddesi 112, Bakanlıklar, Ankara, Turkey.
Union of Soviet Socialist Republics	GOST	GOST	Gosudarstvennyj Komitet Standartov, (State Standards), Mer i Izmeritel'nyh Priborov pri, 38 Kvartal Jugo-Zapada, Lorpus 189-a, Moskva V-421, USSR, "or" GOSSTANDART USSR, Department for Foreign Relations, Leninskiy Prospekt 96, Moscow M-49, USSR.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
Union of Soviet Socialist Republics	AMTU	AMTU	Aviation Metallurgical Specifications, address unconfirmed.
Union of Soviet Socialist Republics	OST1	OST1	Industrial Standards, address unconfirmed.
Union of Soviet Socialist Republics	STU	STU	Technical Specifications of a Sovnakhov, address unconfirmed.
Union of Soviet Socialist Republics	TU	TU	Technical Specifications, address unconfirmed.
United Kingdom	BS	BSI	British Standards Institution, 2 Park Street, London W1A 2BS, England.
United Kingdom	DTD	DTD	Director of Materials Research and Development, Ministry of Defence, PE (Procurement Executive), previously known as Ministry of Aviation and then later the Ministry of Technology ^(a) , St. Giles, Court 1-13 High Street, London, W.C. 2, England.
United States	AISI	AISI	American Iron and Steel Institute, 1000 16th Street, N.W., Washington, D.C. 20036, U.S.A.
United States	AMS	AMS	Aerospace Material Specification, SAE, Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, Pennsylvania 15096, U.S.A.
United States	ANSI	ANSI	American National Standards Institute ^(b) , 1430 Broadway, New York, New York 10018, U.S.A.

(a) DTD: Director of Materials Research and Development, Ministry of Defence (previously known as Ministry of Aviation and then later the Ministry of Technology), DTD formerly generated the majority of the aviation and military standards in UK, apparently now these standards are essentially the responsibility of the British Standards Institute (Aerospace Series with subheadings of bolts, brass and copper, heat resistant alloy castings, heat resistant wrought alloys, aluminum and light alloys, titanium alloys, steels, etc.).

(b) ANSI: American National Standards Institute, an ISO Member, is the centralized and sole agency in the U.S. for the sale and distribution of the National Standards of the World.

APPENDIX A5. (Continued)

Country Name	Standard Symbol, Acronym	Organization Symbol, Acronym	Name and Address of Standard Organization
United States	ASME	ASME	American Society of Mechanical Engineers, 345 East 47th Street, New York, New York 10017, U.S.A.
United States	ASTM	ASTM	American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103, U.S.A.
United States	AWS	AWS	American Welding Society, 2501 NW 7th Street, Miami, Florida 33125, U.S.A.
United States	MIL	MIL	U.S. Military Specifications, Engineering Specifications and Standards Division, Naval Air Engineering Center, Philadelphia, Pennsylvania 19112, U.S.A.
United States	NASA	NASA	National Aeronautics and Space Administration, Lewis Research Center, Space Technology and Materials, Cleveland, Ohio 44135, U.S.A.
United States	NBS	NBS	National Bureau of Standards(a), U.S.A. Department of Commerce, Gaithersburg, Maryland 20234, U.S.A.
United States	NSA	NSA	National Standards Association, 1321 14th Street, NW, Washington, D.C. 20005, U.S.A.
United States	SAE	SAE	Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, Pennsylvania 15096, U.S.A.
Yugoslavia	JUS	JZS	Jugoslovenski zavod za Standardizaciju, Cara Urosa ul, 54, Post pregr. 933, 11001 Beograd, Yugoslavia.

(a) NBS: National Bureau of Standards (Standards Library), is the centralized U.S. repository, for reference purposes, of the National Standards of the World.

**APPENDIX A6. UNITED STATES BOARD ON GEOGRAPHIC NAMES transliteration SYSTEM
AND RUSSIAN NAMES FOR THE ENGLISH CHEMICAL ELEMENT NAMES**

In order to insure that transliteration is consistent with that used in this Handbook, the Board of Geographic Names system of transliteration to Latin letters should be used as follows:

CYRILLIC ALPHABET

<u>Cyrillic Letter</u>	<u>Latin Letter*</u>	<u>Names of Cyrillic Letters</u>	<u>Cyrillic Letter</u>	<u>Latin Letter*</u>	<u>Names of Cyrillic Letters</u>
А	A	ah	Р	R	er
Б	B	beh	С	S	ess
В	V	veh	Т	T	teh
Г	G	geh	У	U	oo
Д	D	deh	Ф	F	ef
Е	Ye	yeh	Х	Kh	khah
Ж	Zh	zheh	Ц	Ts	tseh
З	Z	zeh	Ч	Ch	cheh
И	I	ee	Ш	Sh	shah
Й	Y	ee kratkoye	Щ	Shch	shchah
К	K	kah	Ъ	"	tverdyy znak (mute hard sign)
Л	L	el	Ы	Y	yerry
М	M	em	Ь	,	myakhiy znak (mute soft sign)
Н	N	en	Э	E	eh
О	O	oh	Ю	Yu	you
П	P	peh	Я	Ya	yah

*Latin letter equivalent or transliteration of the Cyrillic letter.

APPENDIX A6. (Continued)

RUSSIAN NAMES FOR THE ELEMENTS

<u>Atomic Number</u>	<u>Element Name</u>	<u>International Symbol</u>	<u>Atomic Number</u>	<u>Element Name</u>	<u>International Symbol</u>
1	Водород	H	52	Теллур	Te
2	Гелий	He	53	Йод	I
3	Литий	Li	54	Ксенон	Xe
4	Бериллий	Be	55	Цезий	Cs
5	Бор	B	56	Барий	Ba
6	Углерод	C	57	Лантан	La
7	Азот	N	58	Церий	Ce
8	Кислород	O	59	Празеводим	Pr
9	Фтор	F	60	Неодим	Nd
10	Неон	Ne	61	Прометий	Pm
11	Натрий	Na	62	Самарий	Sm
12	Магний	Mg	63	Европий	Eu
13	Алюминий	Al	64	Гадолиний	Gd
14	Кремний	Si	65	Тербий	Tb
15	Фосфор	P	66	Диспрозий	Dy
16	Сера	S	67	Гольмий	Ho
17	Хлор	Cl	68	Эрбий	Er
18	Аргон	Ar	69	Тулий	Tu
19	Калий	K	70	Иттербий	Yb
20	Кальций	Ca	71	Лютеций	Lu
21	Скандий	Sc	72	Гафний	Hf
22	Титан	Ti	73	Тантал	Ta
23	Ванадий	V	74	Вольфрам	W
24	Хром	Cr	75	Рений	Re
25	Марганец	Mn	76	Осмий	Os
26	Железо	Fe	77	Иридий	Ir
27	Кобальт	Co	78	Платина	Pt
28	Никель	Ni	79	Зовото	Au
29	Медь	Cu	80	Ртуть	Hg
30	Цинк	Zn	81	Таллий	Tl
31	Галлий	Ga	82	Свинец	Pb
32	Германий	Ge	83	Висмут	Bi
33	Мышьяк	As	84	Полоний	Po
34	Селен	Se	85	Астатин	At
35	Бром	Br	86	Радон	Rn
36	Криптон	Kr	87	Франций	Fr
37	Рубидий	Rb	88	Радий	Ra
38	Стронций	Sr	89	Актиний	Ac
39	Иттрий	Y	90	Торий	Th
40	Цирконий	Zr	91	Протактиний	Pa
41	Ниобий	Nb	92	Уран	U
42	Молибден	Mo	93	Нептуний	Np
43	Технеций	Tc	94	Плутоний	Pu
44	Рутений	Ru	95	Америций	Am
45	Родий	Rh	96	Кюрий	Cm
46	Палладий	Pd	97	Беркелий	Bk
47	Серебро	Ag	98	Калифорний	Cf
48	Кадмий	Cd	99	Эйнштейний	Es
49	Индий	In	100	Фермий	Fm
50	Олово	Sn	101	Менделеевский	Md
51	Сурьма	Sb	102	Нобелий	No

**APPENDIX A7. NATIONAL STANDARDS FOR SUPERALLOYS WITH THE CORRESPONDING
NOMINAL COMPOSITIONS (Alphanumerical by National Standards)**

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation	or Standard				
AECMA Co-P 92-HT	HS-25, L605, WF-11	KC 20 WN		BA, FG, SH	R30605	FR	5. Co-Co/Bal52.9, Cr20, Mn1.5, Ni10, W15
AECMA Fe-PA 91-HT	N-155 Multimet	Z12CNKDW20		Wrought	R30155	FR	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AECMA Fe-PA 92-HT	A-286	E-Z 6NCT25		BA	K66286	FR	2. Cr, Ni, Fe-Al0.2, B, Cr15, Fe/Bal53, Mn1.4, Mo1.25, Ni26, Ti2.15, V0.3
AECMA Fe-PA 93-HT	Discaloy	Z 3 NCT 25		BA, FG, SH	—	FR	2. Cr, Ni, Fe-Al0.35, B, Cr14.7, Fe/Bal55, Mn1.5, Mo1.2, Ni25.5, Ti1.85, V
AECMA Fe-PA 99-HT	Nimonic 901	Z8 NC DT42		—	—	FR	4. Ni-Al0.3, Cr12.5, Fe35, Mo5.7
AECMA Fe-PM 35	—	Z 20CDNB11		BA, FG	—	FR	2. Cr, Ni, Fe-Cr11.5, Fe/Bal86.5, Mo0.75, Nb/Cb0.3, Ni0.5, V0.4
AECMA Fe-PM 36	Werk. 1.4914 LN	Z18COVNB11		Wrought	—	FR	2. Cr, Ni, Fe-Cr11.5, Fe/Bal86.7, Mo0.6, Nb/Cb0.25, Ni0.7, V0.3
AECMA Fe-PM 37	—	Z12CND 12		Wrought	—	FR	2. Cr, Ni, Fe-Cr12, Fe/Bal83.5, Mo1.75, Ni2.5, V0.3
AECMA Fe-PM 38	—	Z 20 CK 10		BA, FG	—	FR	3. Cr, Ni, Co, Fe-B0.005, Co6, Cr10.5, Fe/Bal75, Mo7.5, Nb/Cb0.3, Ni0.5, V
AECMA Ni-P 61-HT	Nimonic 105	NK 20 CDA		BA, FG	—	FR	4. Ni-Al4.7, Co20, Cr15, Mo5, Ni53, Ti1.2
AECMA Ni-P 91-HT	Nimonic 75	NC 20 T		BA, FG, SH	—	FR	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
AECMA Ni-P 93-HT	Hastelloy X, PE13	NC 22 FED		BA, FG, SH	N06002	FR	4. Ni-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal47.3, W0.6
AECMA Ni-P 94-HT	Udimet 500	NCK 19 DAT		BA, FG	N07500	FR	4. Ni-Al2.9, B, Co18, Cr19, Fe4, Mo4, Ni/Bal47.2, Ti2.9
AECMA Ni-P 95-HT	Nimonic 80A	NC 20 TA		BA, FG, SH	N07080	FR	4. Ni-Al1.4, Cr19.5, Ni75, Ti2.4
AECMA Ni-P 96-HT	Nimonic 90	NCK 20 TA		BA, FG, SH	N07090	FR	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
AECMA Ni-C 98-HT	Nimocast 713	NC 13 AD		Castings	—	FR	4. Ni-Al6, Cr13.5, Mo4.5, Ni72, Ti0.9
AECMA Ni-P 100-HT	Inconel 718	NC 19 FENB		—	N07718	FR	4. Ni-Al0.5, Cr19, Fe18.5, Mo3.05, Nb/Cb5.13, Ni52.5, Ti0.9
AECMA Ni-P 101-HT	Waspaloy, PK 50	NC 20 K 14		BA, FG, SH	N07001	FR	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.10, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AECMA Ni-P 102-HT	Nimonic 115	NCK 15 ATD		—	—	FR	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
AECMA Ni-C 103-HT	Nimocast PE 10	NC 20 NB		Castings	—	FR	4. Ni-Cr20, Fe3, Mo6, Ni61, W2.5
AECMA Ni-C 104-HT	IN 100, PK 24	NK 15 CAT		—	N13100	FR	4. Ni-Al5.5, Co15, Cr9.5, Mo3, Ni61, Ti4.7, V1
AECMA Ni-P 105 HT	C-263, Nimonic263	NCK 20 D		BA, FG, SH	—	FR	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
AFNOR E-Z 6 NCT 25	A-286	E-Z 6NCT25		BA	K66286	FR	2. Cr, Ni, Fe-Al0.2, B, Cr15, Fe/Bal53, Mn1.4, Mo1.25, Ni26, Ti2.15, V0.3
AFNOR KC N 22 W	Haynes Alloy 188	KC N 22 W		BA, SH	R30188	FR	5. Co-Co/Bal39.2, Cr22, Fe1.5, La, Ni22, W14

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AFNOR KC 20 WN	HS-25, L605, WF-11	KC 20 WN	BA, FG, SH	R30605	FR	5. Co-Co/Bal52.9, Cr20, Mn1.5, Ni10, W15
AFNOR KCN 20 DNBW	S-816	Co-P 92-HT	—	R30816	FR	5. Co-Co/Bal42, Cr20, Fe4, Mn1.2, Mo4, Nb/Cb4, Ni20, W4
AFNOR NC 13 AD	Nimocast 713	—	Castings	—	FR	4. NiAl6, Cr13.5, Mo4.5, Ni72, Ti0.9
AFNOR NC 14 FEDT	Waspaloy	AMS 5544	—	N07001	FR	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.10, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AFNOR NC 15 T NB A	Inconel X-750	—	—	N07750	FR	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AFNOR NC 17 DWY	Hastelloy C	—	—	N10002	FR	4. Ni-Co2.5, Cr16, Fe5, Mo28, Ni/Bal53.9, W4
AFNOR NC 19 KDU/	Nimonic PK 33	—	—	—	FR	4. Ni-Al2, B, Co14, Cr18.5, Fe0.25, Mo7, Ni/Bal55.9, Ti2
AFNOR NC 19Fe NB	Inconel 718	NC 19 FENB	BA, FG, SH	N07718	FR	4. Ni-Al0.5, Cr19, Fe18.5, Mo3.05, Nb/Cb5.13, Ni52.5, Ti0.9
AFNOR NC 20 DTA	—	—	—	—	FR	4. Ni-Al1.4, Cr20, Fe1, Mo4.5, Ni/Bal70.7, Ti2.4
AFNOR NC 20 K 14	Waspaloy, PK 50	NC 20 K 14	BA, FG, SH	N07001	FR	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.10, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AFNOR NC 20 KDTA	Udimet 500	—	—	N07500	FR	4. NiAl2.9, B, Co18, Cr19, Fe4, Mo4, Ni/Bal47.2, Ti2.9
AFNOR NC 20 NB	Nimocast PE 10	—	Castings	—	FR	4. NiCr20, Fe3, Mo6, Ni61, W2.5
AFNOR NC 20 T	Nimonic 75	NC 20 T	BA, FG, SH	—	FR	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
AFNOR NC 20 TA	Nimonic 80A	NC 20 TA	BA, FG, SH	N07080	FR	4. Ni-Al1.4, Cr19.5, Ni65, Ti2.4
AFNOR NC 20KTA	Nimonic 90	—	Wrought	—	FR	4. NiAl1.5, B, Co18, Cr19.5, Fe0.5, Ni/Bal58, Ti2.5
AFNOR NC 21 FEDU	Incoloy 825	Ni-P 96-HT	—	N08825	FR	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
AFNOR NC 22 FED	Hastelloy X, PE13	NIM, PE13	BA, FG, SH	N06002	FR	4. Ni-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal47.3, W0.6
AFNOR NC 22 FEDNB	Inconel 625	—	—	N06625	FR	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
AFNOR NCK 15 ATD	Nimonic 115	—	—	—	FR	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
AFNOR NCK 18 DAT	Udimet 500	NL-P 94-HT	—	N06625	FR	4. Ni-Al2.9, B, Co18, Cr19, Fe4, Mo4, Ni/Bal47.2, Ti2.9
AFNOR NCK 18 TDA	Udimet 710	NCK 18 TDA	BA, FG	—	FR	4. Ni-Al2.5, B, Co15, Cr18, Mo3, Ni/Bal54.2, Ti5, W1.5
AFNOR NCK 19 DAT	Udimet 500	NCK 19 DAT	BA, FG	N07500	FR	4. Ni-Al2.9, B, Co18, Cr19, Fe4, Mo4, Ni/Bal47.2, Ti2.9
AFNOR NCK 20 TA	Nimonic 90	NCK 20 TA	BA, FG, SH	N07090	FR	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
AFNOR NCK 20D	C-263, Nimonic263	NCK 20 D	BA, FG, SH	—	FR	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
AFNOR ND 27 FEV	Hastelloy B	—	—	N10001	FR	4. Ni-Co2.5, Cr0.6, Fe5, Mo28, Ni/Bal62, V0.3
AFNOR NK 15 CAT	IN 100, PK 24	—	—	N13100	FR	4. Ni-Al5.5, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AFNOR NK 18 CDAT	Udimet 700	NK 18 CDAT	BA,FG	—	FR	4.Ni-Al4.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5
AFNOR NK 20 CDA	Nimonic 105	NK 20 CDA	BA,FG	—	FR	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AFNOR NK 27 CADT	Inconel 700	—	—	—	FR	4.Ni-Al3,Co28.5,Cr15,Fe0.7,Mo3.75,Ni46,Ti2.2
AFNOR NKCD 20 ATV	Nimonic 105	—	—	—	FR	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AFNOR NW 11 AC	Nimonic PE 16	—	—	—	FR	4.Ni-Al1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
AFNOR Z 06 NCT 25	A-286	Fe-PA 92-HT	—	K66286	FR	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AFNOR Z 10 CKD 10	Werk, 1.4914 LN	Fe-PM 38	Wrought	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.7,Mo0.6,Nb/Cb0.25,Ni0.7,V0.3
AFNOR Z 10 CNW 17	—	Z 10 CNW17	BA,FG,SH	—	FR	2.Cr,Ni,FeCr17,Fe/Bal67.3,Ni12.5,Ti0.6,W3.2
AFNOR Z 10 NKC 30	—	—	—	—	FR	3.Cr,Ni,Co,Fe-Al0.8,Co20,Cr18,Fe/Bal29.2,Ni30,Ti2
AFNOR Z 12 CND 12	Werk, 1.4914 LN	Fe-PM 36	Wrought	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.7,Mo0.6,Nb/Cb0.25,Ni0.7,V0.3
AFNOR Z 12 CNKDW 20	N-155	Z12CNKDW20	BA,FG,SH	R30155	FR	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AFNOR Z 12 CNKDW 20	N-155	Fe-PA 92-HT	—	R30155	FR	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AFNOR Z 18 CVD NB 11	—	Fe-PM 37	Wrought	—	FR	2.Cr,Ni,FeCr12,Fe/Bal83.5,Mo1.75,Ni2.35,V0.3
AFNOR Z 20 CDNB 11	Fe-PM 35	Z 20CDNB11	BA,FG	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4
AFNOR Z 20 CKD 10	—	Z 20 CKD10	BA,FG	—	FR	3.Cr,Ni,Co,Fe-B0.005,Co6,Cr10.5,Fe/Bal75,Mo7.5,Nb/Cb0.3,Ni0.5,V
AFNOR Z 3 NCT 25	Discaloy	Z 3 NCT 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Al0.35,B,Cr14.7,Fe/Bal55,Mn1.5,Mo1.2,Ni25.5,Ti1.85,V
AFNOR Z 4 NCDT 26	Discaloy	AMS 5733	—	K66220	FR	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
AFNOR Z 42CKNDNBW20 S-590	Discaloy	AMS 5533	—	R30590	FR	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4
AFNOR Z 42,CKNDW 20	S-590	—	—	R30590	FR	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4
AFNOR Z 6 CN 25	—	Z 6 CN 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Cr25,Fe/Bal54.5,Ni20.5
AFNOR Z 6 NCT 25	A-286	Fe-PA 92-HT	—	K66285	FR	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AFNOR Z 6 NKCDT 38	Refractaloy 26	—	—	—	FR	3.Cr,Ni,Co,FeCo19,Cr18,Fe/Bal22.9,Mo3,Ni36,Ti2.6
AFNOR Z 8 NCDT 42	Incoloy 901	—	—	N09901	FR	2.Cr,Ni,FeAl0.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5
AFNOR Z6 NCKDW 45	RA 333	—	—	N06333	FR	4.Ni-Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.3,Si1.25,W3
AFNOR Z8 NC D38	Nimonic PE 11	—	—	—	FR	4.Ni-Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Zr0.005
AFNOR 25 NC 35 20	Incoloy 800	—	—	N08800	FR	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38

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APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AIR 9165-011	AECMA Fe-PM 35	Z 20CDNB11	BA,FG	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4
AIR 9165-021	AECMA Fe-PH 38	Z 10 CKD10	BA,FG	—	FR	3.Cr,Ni,Co,Fe-B,Co6,Cr10.5,Fe/Bal75,Mo7.5,Nb/Cb0.3,Ni0.5,V
AIR 9165-031	—	Z 6 CN 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Cr25,Fe/Bal54.5,Ni20.5
AIR 9165-041	—	Z 10 CNW17	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Cr17,Fe/Bal67.3,Ni12.5,Ti0.6,W3.2
AIR 9165-051	N-155	Z12CNKDW20	BA,FG,SH	R30155	FR	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AIR 9165-061	Disaloy	Z 3 NCT 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-A10.35,B,Cr14.7,Fe/Bal55,Mn1.5,Mo1.2,Ni25.5,Ti1.85,V
AIR 9165-071	A-286	E-Z 6NCT25	BA	K66286	FR	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AIR 9165-081	Incoloy 901	Z 8 NCDT42	BA,FG	N09901	FR	2.Cr,Ni,Fe-A10.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5
AIR 9165-091	Nimonic 75	NC 20 T	BA,FG,SH	—	FR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
AIR 9165-101	Nimonic 80A	NC 20 TA	BA,FG,SH	N07080	FR	4.Ni-A11.4,Cr19.5,Ni75,Ti2.4
AIR 9165-111	Waspaloy,PK 50	NC 20 K 14	BA,FG,SH	N07001	FR	4.Ni-A11.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AIR 9165-121	Inconel 718	NC 19 FENB	BA,FG,SH	N07718	FR	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AIR 9165-131	Hastelloy X, PE13	NC 22 FED	BA,FG,SH	N06002	FR	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AIR 9165-141	Udimet 500	NCK 19 DAT	BA,FG	N07500	FR	4.Ni-A12.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AIR 9165-151	C-263,Nimonic263	NCK 20 D	BA,FG,SH	—	FR	4.Ni-A10.5,Co20,Cr20,Mo5.9,Ni51,Ti2
AIR 9165-161	Nimonic 90	NCK 20 TA	BA,FG,SH	N07090	FR	4.Ni-A11.5,Co16.5,Cr19.5,Ni59,Ti2.5
AIR 9165-171	Udimet 700	NK 18 CDAT	A,FG	—	FR	4.Ni-A14.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5
AIR 9165-181	Udimet 710	NCK 18 TDA	BA,FG	—	FR	4.Ni-A12.5,B,Co15,Cr18,Mo3,Ni/Bal54.2,Ti5,W1.5
AIR 9165-191	Nimonic 105	NK 20 CDA	BA,FG	—	FR	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AIR 9165-201	HS-25,L605,WF-11	KC 20 WN	BA,FG,SH	R30605	FR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AIR 9165-211	Haynes Alloy 188	KC N 22 W	BA,SH	R30188	FR	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AISI 422	422	AMS 5655	Wrought	S42200	US	1.Ferritic(Mart.)SS-Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1
AISI 615	Greek Ascoloy	—	Wrought	S41800	US	1.Ferritic(Mart.)SS-Cr13,Fe/Bal81.2,Ni2,W3
AISI 616	422	AISI 616	Wrought	S42200	US	1.Ferritic(Mart.)SS-Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1
AISI 619	Lapelloy	ASTM A565	Wrought	S42300	US	1.Ferritic(Mart.)SS-Cr12,Fe/Bal83,Mn1,Mo2.75,Ni0.3,V0.25
AISI 650	16-25-6	—	Wrought	—	US	2.Cr,Ni,Fe-Cr16,Fe/Bal50.7,Mo6,Ni25,N,Mn1.35

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AISI 651	19-9DL	AISI 651	BA,FG,SH	K63198	US	2.Cr,Ni ,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AISI 652	19-9DX	AISI 652	BA,FG,SH	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
AISI 653	17-14 CUMO	—	Wrought	—	US	2.Cr,Ni,Fe-Cr15.9,Cu3,Fe/Bal52.4,Mo2.5,Nb/Cb0.45,Ni14.1,Ti0.25
AISI 660	A-286	AISI 660	—	K66286	US	2.Cr,Ni ,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AISI 661	N-155	—	—	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AISI 662	Discaloy	AISI 662	—	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
AISI 663	V-57	—	Wrought	—	US	2.Cr,Ni,Fe-A10.25,B,Cr14.8,Fe/Bal52.2,Mo1.25,Ni27,Ti3,V0.5
AISI 664	D-979	—	—	N09979	US	2.Cr,Ni,Fe-A11,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AISI 665	W-545	AISI 665	—	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
AISI 670	L605,WF-11,HS-25	—	—	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AISI 671	S-816	—	—	R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4,Ni20,W4
AISI 680	Hastelloy X	—	—	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AISI 681	Incoloy 901	—	—	N09901	US	2.Cr,Ni,Fe-A1 0.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.25
AISI 682	Incoloy 901 + Ti	—	—	N09901	US	2.Cr,Ni,Fe-A10.25,Cr13.5,Fe34,Mo5.7,Ni42.5,Ti2.85
AISI 683	Rene 41	—	—	N07041	US	4.Ni-A11.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AISI 684	Udimet 500	—	—	N07500	US	4.Ni-A12.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AISI 685	Waspaloy	Nim. PK 50	—	N07001	US	4.Ni-A11.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AISI 686	GMR-235	—	—	—	US	4.Ni -Al3,B,Cr15.5,Fe10,Mo5.25,Ni/Bal63.19,Ti2
AISI 687	Udimet 700	—	—	—	US	4.Ni-A14.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5
AISI 688	Inconel X-750	—	—	N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AISI 689	M-252,J1500	—	—	N07252	US	4.Ni-A11,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AISI 690	Refractaloy 26	—	Wrought	—	US	3.Cr,Ni,Co,Fe-Co19,Cr18,Fe/Bal22.9,Mo3,Ni36,Ti2.6
AMS 5354	Greek Ascoloy	AISI 615	Castings	S41800	US	1.Ferritic(Mart)SS-Cr13,Fe/Bal81.2,Ni2,W3
AMS 5369	19-9DL	AISI 651	Castings	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AMS 5375	Stellite 23	HS 23	Invest.C	R30023	US	5.Co-Co/Bal66.1,Cr24,Fe1,Mo5,Ni2
AMS 5376	N-155	AISI 661	Castings	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5377	IN-713	Nimoca.713	Invest.C.	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5378	Stellite 27	HS-27	Invest.C.	R30027	US	5.Co-Co/Bal35.2,Cr25,Fe1,Mo5.5,Ni32
AMS 5380	Stellite 30	HS-30	Invest.C.	R30030	US	5.Co-Co/Bal50.3,Cr26,Fe1,Mo6,Ni15
AMS 5382	Stellite 31,HS31	X-40	Invest.C.	R30031	US	5.Co-B,Co52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5383	Inconel 718	—	Invest.C.	N07718	US	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5384	Udimet 500	AISI 684	Invest.C.	N07500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5385	Stellite 21	HS-21	Invest.C.	R30021	US	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5388	Hastelloy C	—	Invest.C.	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5389	Hastelloy C	—	Sand C.	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5390	Hastelloy X	AISI 680	Invest.C.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5391	Nimocast 713	Alloy 713C	Invest.C.	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5391	IN-713	Nimoca.713	Invest.C.	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5393	RA-333	—	Castings	N06333	US	4.Ni-Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5,Si1.25,W3
AMS 5396	Hastelloy B	—	Invest.C.	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
AMS 5397	IN 100, PK 24	—	Invest.C.	N13100	US	4.Ni-Al5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7,V1,Zr
AMS 5397	IN-100	Nimoc.PK24	Invest.C.	N13100	US	4.Ni-Al5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7,V1,Zr
AMS 5399	Rene 41	AISI 683	Invest.C.	N07041	US	4.Ni-Al11.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5508	Greek Ascoloy	—	SH,ST,PL	S41800	US	1.Ferritic(Mart.)SS—Cr13,Fe/Bal81.2,Ni2,W3
AMS 5509	D-979	AISI 664	SH,ST,PL	K66979	US	2.Cr,Ni,Fe-Al11,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AMS 5525	A-286	AISI 660	SH,ST,PL	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5526	19-9DL	AISI 651	SH,ST,PL	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AMS 5527	19-9DL	AISI 651	SH,ST	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AMS 5530	Hastelloy C	—	SH,ST,PL	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5531	N-155	AISI 661	SH	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5532	N-155	AISI 661	SH	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5533	S-590	—	SH,ST	R30590	US	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4
AMS 5534	S-816	AISI 671	SH,ST	R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4,Ni20,W4
AMS 5536	Hastelloy X	AISI 680	SH,PL	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5537	L605,WF-11,HS-25	AISI 670	SH	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AMS 5538	19-9DX,19-9-W-Mo	AISI 652	SH,ST,PL	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5539	19-9DX,19-9-W-Mo	AISI 652	SH,ST	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5541	Inconel 722	—	SH,ST	N07722	US	4.Ni-Ai0.7,Cr15.1,Fe7,Ni75,Ti2.38
AMS 5542	Inconel X-750	AISI 688	SH,ST,PL	N07750	US	4.Ni-Ai0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5543	W-545	AISI 665	SH,ST	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
AMS 5544	Nimonic PK 50	Waspaloy	SH,ST,PL	N07001	US	4.Ni-Ai1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5544	Waspaloy	AISI 685	SH,ST,PL	N07001	US	4.Ni-Ai1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5545	Rene 41	AISI 683	SH,ST	N07041	US	4.Ni-Ai1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5550	Inconel 702	—	SH,ST	N07702	US	4.Ni-Ai3.25,Cr15.5,Fe1,Ni79.5,Ti0.63
AMS 5551	M-252,J1500	AISI 689	SH,ST	N07252	US	4.Ni-Ai1,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AMS 5552	Incoloy 801	—	SH,ST,PL	N08801	US	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
AMS 5561	21-6-9	—	Weld.T.	S21900	US	2A,Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5579	19-9DL	AISI 651	Weld.T.	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AMS 5582	Inconel X-750	AISI 688	Seaml.T.	N07750	US	4.Ni-Ai0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5585	N-155	AISI 661	Weld.T.	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5586	Waspaloy	AISI 685	Weld.T.	N07001	US	4.Ni-Ai1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5587	Hastelloy X	AISI 680	Seaml.T.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5588	Hastelloy X	AISI 680	Weld.T.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Country	Public				
AMS 5589	Inconel 718	—	—	SeamI.T.	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5590	Inconel 718	—	—	SeamI.T.	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5592	RA-330	—	—	SH,ST,PL	N06330	US	2.Cr,Ni,Fe-Cr18.5,Cu0.25,Fe/Bal45.7,Ni35.5
AMS 5595	21-6-9LC	—	—	SH,ST,PL	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5596	Inconel 718	—	—	SH,ST,PL	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5597	Inconel 718	—	—	SH,ST,PL	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5598	Inconel X-750	AISI 688	—	SH,ST,PL	N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5599	Inconel 625	—	—	SH,ST,PL	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5605	Inconel 706	—	—	SH,ST,PL	N09706	US	4.Ni-A10.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5606	Inconel 706	—	—	SH,ST,PL	N09706	US	4.Ni-A10.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5608	Haynes Alloy 188	HS 188	—	SH,ST,PL	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5608	Haynes Alloy 188	HS188	—	SH,ST,PL	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5616	Greek Ascology	—	—	BA,FG,T,R	S41800	US	1.Ferritic(Mart.)SS-Cr13,Fe/Bal81.2,Ni2,W3
AMS 5633	CG-27	—	—	BA,FG	N09027	US	2.Cr,Ni,Fe-A11.5,B,Cr13,Fe/Bal38.6,Mo5.5,Nb/Cb0.6,Ni38,Ti2.5
AMS 5634	CH-27	—	—	BA,FG	N09027	US	2.Cr,Ni,Fe-A11.5,B,Cr13,Fe/Bal38.6,Mo5.5,Nb/Cb0.6,Ni38,Ti2.5
AMS 5655	422	AISI 422	—	BA,FG	S42200	US	1.Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1
AMS 5656	21-6-9LC	—	—	BA,FG,R	S21904	US	2A.Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5660	Nimonic 901	Incoloy 901	—	BA,FG	N09901	UK	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
AMS 5661	Nimonic 901	Incoloy 901	—	BA,FG	N09901	US	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
AMS 5662	Inconel 718	—	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5663	Inconel 718	—	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5664	Inconel 718	—	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5666	Inconel 625	—	—	BA,FG,R	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5666	Inconel 625	ASTM B443-	—	BA,FG,R	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5667	Inconel X-750	AISI 688	—	BA,FG,R	N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AMS 5668	Inconel X-750	AISI 688	BA,FG,R	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5669	Inconel X-750	AISI 688	BA	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5670	Inconel X-750	AISI 688	BA,FG,R	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5671	Inconel X-750	AISI 688	BA,FG,R	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5698	Inconel X-750	AISI 688	W	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5699	Inconel X-750	AISI 688	W	N07750	US	4. Ni-Al0.7, Cr15.5, Fe7, Nb/Cb0.95, Ni73, Ti2.5
AMS 5701	Inconel 706	—	BA,FG,R	N09706	US	4. Ni-Al0.2, Co0.5, Cr16, Fe40, Mo0.5, Nb/Cb2.9, Ni41.5, Ti1.75
AMS 5702	Inconel 706	—	BA,FG,R	N09706	US	4. Ni-Al0.2, Co0.5, Cr16, Fe40, Mo0.5, Nb/Cb2.9, Ni41.5, Ti1.75
AMS 5703	Inconel 706	—	BA,FG,R	N09706	US	4. Ni-Al0.2, Co0.5, Cr16, Fe40, Mo0.5, Nb/Cb2.9, Ni41.5, Ti1.75
AMS 5704	Nimonic PK 50	Waspaloy	FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5704	Waspaloy	AISI 685	FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5706	Nimonic PK 50	Waspaloy	BA,FG,R	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5706	Waspaloy	AISI 685	FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5707	Nimonic PK 50	Waspaloy	BA,FG,R	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5707	Waspaloy	AISI 685	FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5708	Waspaloy	AISI 685	BA,FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5709	Nimonic PK 50	Waspaloy	BA,FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5709	Waspaloy	AISI 685	BA,FG	N07001	US	4. Ni-Al1.4, B, Co13.5, Cr19.5, Cu0.1, Fe2, Mo4.3, Ni/Bal55, Ti3, Zr
AMS 5712	Rene 41	AISI 683	BA,FG,R	N07041	US	4. Ni-Al1.5, B, Co11, Cr19, Mo10, Ni/Bal45.3, Ti3.1
AMS 5713	Rene 41	AISI 683	BA,FG,R	N07041	US	4. Ni-Al1.5, B, Co11, Cr19, Mo10, Ni/Bal45.3, Ti3.1
AMS 5714	Inconel 722	—	BA,FG,R	N07722	US	4. Ni-Al0.7, Cr15.5, Fe7, Ni75, Ti2.38
AMS 5715	Inconel 601	—	BA,FG,R	N06601	US	4. Ni-Al1.35, Cr23, Fe14.1, Ni60.5
AMS 5717	RA-333	—	BA,FG,R	N06333	US	4. Ni-Co3, Cr25, Fe18, Mn1.5, Mo3, Ni/Bal45.5, Si1.25, W3
AMS 5720	19-9DL	AISI 651	Bolts	K63198	US	2. Cr, Ni, Fe-Cr19, Fe/Bal66.8, Mo1.25, Ni9, Nb/Cb0.4, Ti0.3, W1.2, Mn1
AMS 5721	19-9DL	AISI 651	BA to 1"	K63198	US	2. Cr, Ni, Fe-Cr19, Fe/Bal66.8, Mo1.25, Ni9, Nb/Cb0.4, Ti0.3, W1.2, Mn1

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Country				
AMS 5722	19-9DL	AISI 651	US	BA,FG,R	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
AMS 5723	19-9DX,19-9-W-Mo	AISI 652	US	BA,FG,R	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
AMS 5724	19-9DX,19-9-W-Mo	AISI 652	US	BA To 1"	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
AMS 5725	16-25-6	AISI 650	US	BA to 1½"	—	US	2A,Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
AMS 5727	16-25-6	AISI 650	US	FG	—	US	2A,Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
AMS 5728	16-25-6	AISI 650	US	FG	—	US	2A,Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
AMS 5729	19-90X,19-9-W-Mo	AISI 652	US	BA to 1.	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mn1,Mo1.50,Ni19,Ti0.55,W1.2
AMS 5731	A-286	AISI 660	US	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5732	A-286	AISI 660	US	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5733	Discaloy	AISI 662	US	BA,FG	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
AMS 5734	A-286	AISI 660	US	BA,FG,T	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5735	A-286	AISI 660	US	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5736	A-286	AISI 660	US	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5737	A-286	AISI 660	US	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-AI0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5741	W-545	AISI 665	US	BA,FG	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
AMS 5742	Incoloy 801	—	US	BA,FG,R	N08801	US	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
AMS 5746	D-979	AISI 664	US	BA,FG	K66979	US	2.Cr,Ni,Fe-AI1,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AMS 5748	AFC-77	—	US	BA,FG,R	K65770	US	1A,Ferritic(Age-Hardenable)SS-Co13,Cr14.5,Fe/Bal67,V0.4
AMS 5750	Hastelloy C	—	US	BA,FG,R	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5751	Udimet 500	AISI 684	US	BA,FG,R	N07500	US	4.Ni-AI2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5753	Udimet 500	AISI 684	US	BA,FG	N07500	US	4.Ni-AI2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5754	Hastelloy X	AISI 680	US	BA,FG,R	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5755	Hastelloy W	—	US	BA,FG,R	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
AMS 5756	M-252,J1500	AISI 689	US	BA,FG,R	N07252	US	4.Ni-AI1,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AMS 5757	M-252,J1500	AISI 689	US	BA,FG,R	N07252	US	4.Ni-AI1,B,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6

APPENDIX A7. (Continued)

Public Standard or Specification Number	International Common Name or Designation (a)	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Country				
AMS 5759	L605,WF-11,HS-25	AISI 670	US	BA,FG,R	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AMS 5765	S-816	AISI 671	US	BA,BI,FG	R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4,Ni20,W4
AMS 5766	Incoloy 800	—	US	BA,FG	N08800	US	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
AMS 5768	N-155	AISI 661	US	BA,FG,R	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5769	N-155	AISI 661	US	BA,FG,R	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5770	S-590	—	US	B,FG	R30590	US	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4
AMS 5772	Haynes Alloy 188	MS188	US	BA,FG,R	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5779	Inconel X-750	AISI 688	US	Weld. EI.	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5782	19-9DX,19-9-W-Mo	AISI 652	US	W	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5783	19-9DX,19-9-W-Mo	AISI 652	US	Weld. EI.	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5784	29-9	—	US	W	K64299	US	2.Cr,Ni,Fe-Cr29,Cu0.25,Fe/Bal59.5,Mn1.5,Mo0.25,Ni9.5
AMS 5785	29-9	—	US	Weld. EI.	K64299	US	2.Cr,Ni,Fe-Cr29,Cu0.25,Fe/Bal59.5,Mn1.5,Mo0.25,Ni9.5
AMS 5786	Hastelloy W	—	US	Weld. W.	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
AMS 5787	Hastelloy W	—	US	Weld. EI.	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
AMS 5789	Stellite 31, HS31	X-40	US	Weld. W.	R30031	US	5.Co-B,Co52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5794	N-155	AISI 661	US	W	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5795	N-155	AISI 661	US	W	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AMS 5796	L605,WF-11,HS-25	AISI 670	US	W	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AMS 5797	L605,WF-11,HS-25	AISI 670	US	Weld. EI	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AMS 5798	Hastelloy X	AISI 680	US	W	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5799	Hastelloy X	AISI 680	US	Weld. EI.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5800	Rene 41	AISI 683	US	Weld. W.	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5801	Haynes Alloy 188	HS-188	US	Weld. W.	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5804	A-286	AISI 660	US	Weld. W	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5805	A-286	AISI 660	US	Weld. W.	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AMS 5717	Greek Ascoloy	—	Weld. W.	S41800	US	1.Cr,Ni,Fe-Cr13,Fe/Bal81.2,Ni2,W3
AMS 5828, AISI 685	Nimonic PK 50	Waspaloy	Weld. W.	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5829	Nimonic 90	—	Weld. W.	N07090	US	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
AMS 5832	Inconel 718	—	Weld. W.	N07718	US	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5837	Inconel 625	—	Weld. W.	N06625	US	4.Ni-Al0.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5838	—	—	Weld. W.	—	US	4.Ni-Al0.3,B,Co1,Cr15.7,Fe1.5,La0.05,Mo15.2,Ni/Bal65.8,W0.5
AMS 5870	Inconel 601	—	SH,ST,PL	N06601	US	4.Ni-Al1.35,Cr23,Fe14.1,Ni60.5
AMS 5871	Incoloy 800	—	SH,ST,PL	N08800	US	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
AMS 5872	—	—	SH,ST,PL	—	US	4.Ni-Al0.4,Co20,Cr20,Fe0.35,Mo5.8,Ni/Bal51.5,Ti2.1
AMS 5873	—	—	SH,ST,PL	—	US	4.Ni-Al0.3,B,Co1,Cr15.75,Cu0.17,Fe1.5,La,Mo15.25,Ni/Bal65,W1
AMS 7235	A-286	AISI 660	Rivets	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7236	L605,WF-11,HS-25	AISI 670	Rivets	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
AMS 7237	Hastelloy X	AISI 680	Rivets	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 7246	Inconel X-750	AISI 688	Thread. W.	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 7469	Rene 41	AISI 683	Bolts, S.	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 7470	Greek Ascoloy	AISI 615	Bolts S.	S41800	US	1.Ferritic(Mart.)SS-Cr13,Fe/Bal81.2,Ni2,W3
AMS 7471	Waspaloy	AISI 685	Bolts, S.	N07001	US	A.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 7478	A-286	AISI 660	Bolts, S.	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7479	A-286	AISI 660	Bolts, S.	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7481	A-286	AISI 660	Studs	K66206	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
ANSI G81.10	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI G81.10	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI G81.34	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI G81.34	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI G81.40	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
ANSI G81.40	Stellite 21	—	—	R30021	US	5. Co-Co/Bal62, Cr27, Fe1, Mo5, Ni3
ANSI G81.40	Stellite 31	—	—	R30031	US	5. Co-Co/Bal52.5, Cr25.5, Fe2, Ni10.5, W7.5
ANSI G81.40	Multimet N-155	N-155	—	R30155	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
ANSI H34.11	Hastelloy B	—	—	N10001	US	4. Ni-Co2.5, Cr0.6, Fe5, Mo28, Ni/Bal62, V0.3
ANSI H34.12	Hastelloy C	—	—	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4
ANSI H34.13	Hastelloy B	—	—	N10001	US	4. Ni-Co2.5, Cr0.6, Fe5, Mo28, Ni/Bal62, V0.3
ANSI H34.14	Hastelloy C	—	—	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4
ANSI H34.15	Hastelloy F	—	—	N06001	US	2. Cr, Ni, Fe-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal16, Mo6.5, Nb/Cb2, Ni45.5, W1
ANSI H34.15	Hastelloy X	—	—	N06002	US	4. Ni-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal47.3, W0.6
ANSI H34.15	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ANSI H34.15	Hastelloy B	—	—	N10001	US	4. Ni-Co2.5, Cr0.6, Fe5, Mo28, Ni/Bal62, V0.3
ANSI H34.15	Hastelloy C	—	—	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4
ANSI H34.19	Inconel 625	—	—	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ANSI H34.20	Inconel 625	—	—	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ANSI H34.21	IN-102	—	—	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal67.8, Ti0.5, W3
ANSI H34.22	Inconel 625	—	—	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ANSI H34.23	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ANSI H34.24	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ANSI H34.27	IN-102	—	—	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal57.8, Ti0.5, W3
ANSI H34.28	IN-102	—	—	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal57.8, Ti0.5, W3
ANSI H34.39	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ANSI H34.40	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ANSI H34.41	Incoloy 800	—	—	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
ANSI H34.72	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME 408	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME 409	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SA412 (12904)	21-6-9LC	—	—	S21904	US	2A.Cr,Ni,Fe-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASME SA637	Inconel X-750	AISI 688	BA,FG	N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
ASME SA638 Grade 660	A-286	AISI 660	BA,FG	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
ASME SB163	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB163	Incoloy 825	—	—	N08825	US	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ASME SB333	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASME SB334	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SB335	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASME SB336	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SB407	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB423	Incoloy 825	—	—	N08825	US	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ASME SB424	Incoloy 825	—	—	N08825	US	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ASME SB425	Incoloy 825	—	—	N08825	US	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ASME SB435	Hastelloy X	—	SH,PL	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASME SB436	Hastelloy F	—	—	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
ASME SB443	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SB444	Inconel 625	—	S.L,PI,T	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SB446	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SFA5.11	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SFA6.14	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A276(X-M11)	21-6-9LC	—	BA,SHAPE	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A276(XM-10)	21-6-9	—	BA,SHAPE	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.6,Mn9,Ni6.5,N
ASTM A296	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM A296	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Public	Designation or Standard				
ASTM A314 (X-M11)	21-6-9LC	—	—	BA,FG	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A314, (XM-10)	21-6-9	—	—	BA,FG	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A412 (X-M11)	21-6-9LC	—	—	SH,ST,PL	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A412, (XM-10)	21-6-9	—	—	SH,ST,PL	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A429 (X-M11)	21-6-9LC	—	—	SEE A276	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A429, (XM-10)	21-6-9	—	—	SEE A276	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A453 Grade 660	A-286	—	AISI 660	Bolting	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26Ti2.15,V0.3
ASTM A453 Grade 662	Discaloy	—	AISI 662	Bolting	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
ASTM A453 Grade 665	W-545	—	AISI 665	Bolting	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
ASTM A453, Grade 651	19-9DL	—	AISI 651	Bolting	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A457, Grade 651	19-9DL	—	AISI 651	SH,ST,PL	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A458, Grade 651	19-9DL	—	AISI 651	BA	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A473 (X-M11)	21-6-9LC	—	—	FG	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A473, (XM-10)	21-6-9	—	—	FG	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A477, Grade 651	19-9DL	—	AISI 651	BI,FG	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2Mn1
ASTM A494	Hastelloy B	—	—	Castings	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM A494	Hastelloy C	—	—	Castings	N1002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A565 Grade 615	Greek Ascology	—	AISI 619	BA,FG	S41800	US	1.Fe,Mart.SS-Cr13,Fe/Bal81.2,Ni2,W3
ASTM A565, Grade 616	422	—	AISI 422	BA,FG	S42200	US	1.Fe,Mart.SS-Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1
ASTM A565, Grade 619	Lapelloy	—	AISI 619	BA,FG	S42900	US	1.Fe,Mart.SS-Cr12,Fe/Bal83,Mn1,Mo2.75,Ni0.3,V0.25
ASTM A567	Hastelloy X	—	—	Castings	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM A567	Inconel 713	—	—	Castings	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
ASTM A567	Hastelloy C	—	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A567 Grade 6V	Udimet 500	—	AISI 684	Castings	N07500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
ASTM A567 (1)	Stellite 21	—	—	—	R30021	US	5.Co-Co/Bal62,Cr27,Fe1,Mo5,Ni3

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation	or Standard				
ASTM A567 (2)	Stellite 31	—	—	Castings	R30031	US	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
ASTM A567, Grade 661	Multimet N-155	N-155	—	Castings	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
ASTM A580 (X-M11)	21-6-9LC	—	—	W	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/8al63.5,Mn9,Ni6.5,N
ASTM A580, (XM-10)	21-6-9	—	—	W	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A637	Inconel X-750	AISI 688	—	8A,FG	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
ASTM A637 Grade 684	Udimet 500	AISI 684	—	8A,FG	N07500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
ASTM A637 Grade 685	Waspaloy	AISI 685	—	8A,FG	N07001	US	4.Ni-Al1.4,8,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/8al55,Ti3,Zr
ASTM A637 Grade 689	M-252,J1500	AISI 689	—	8A,FG	N07252	US	4.Ni-Al1.8,Co10,Cr19,Mo10,Ni/8al56.2,Ti2.6
ASTM A637 Grade 718	Inconel 718	—	—	BA,FG	N07718	US	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
ASTM A637 Grade 80A	Nimonic 80A	—	—	8A,FG	N07080	US	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
ASTM A638 Grade 660	A-286	AISI 660	—	BA,FG	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
ASTM A638 Grade 662	Discaloy	AISI 662	—	8A,FG	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
ASTM A639, Grade 661	Multimet N-155	N-155	—	BA,FG	R30155	US	3.Cr,Ni,Co,Fe-C020,Cr21,Fe30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
ASTM A639, Grade 671	S-816	AISI 671	—	BA,FG	R30816	US	5.Co-Co/8al42,Cr20,Fe4,Mn1.2,No4,Nb/Cb4,120,W4
ASTM A670	Inconel 718	—	—	SH,ST,PL	N07718	US	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni152.5,Ti0.9
ASTM 8163	Incoloy 800	—	—	H.Exch.T	N08800	US	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM 8163	Incoloy 825	—	—	H.Exch.T	N08825	US	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ASTM 83333	Hastelloy 8	—	—	SH,PL	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM 8334	Hastelloy C	—	—	SH,PL	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM 8335	Hastelloy 8	—	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/8al62,V0.3
ASTM 8336	Hastelloy C	—	—	ROD	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM 8366	Hastelloy F	—	—	Weld.Fit	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
ASTM 8366	Hastelloy X	—	—	Weld.Fit	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM 8366	Incoloy 800	—	—	Weld.Fit	N08800	US	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM 8366	Hastelloy 8	—	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
ASTM B366	Hastelloy C	—	Weld, Fit	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4
ASTM B407	Incoloy 800	—	PI, T	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ASTM B408	Incoloy 800	—	ROD, BA	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ASTM B409	Incoloy 800	—	SH, ST, PL	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ASTM B423	Incoloy 825	—	PI, T	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cj2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B424	Incoloy 825	—	SH, ST, PL	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cj2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B425	Incoloy 825	—	BA, ROD	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cj2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B435	Hastelloy X	—	SH, PL	N06002	US	4. Ni-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal47.3, W0.6
ASTM B436	Hastelloy F	—	SH, PL	N06001	US	2. Cr, Ni, Fe-Co2.5, Cr22, Fe/Bal16, Mn1.5, Mo6.5, Nb/Cb2, Ni45.5, Si1, W1
ASTM B443	Inconel 625	—	SH, ST, PL	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ASTM B444	Inconel 625	—	T, PI	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ASTM B445	In-102	—	T, PI	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal67.8, Ti0.5, W3,
ASTM B446	Inconel 625	—	BA, ROD	N06625	US	4. Ni-Al0.2, Cr21.5, Fe2.5, Mo9, Ni61, Ti0.2
ASTM B514	Incoloy 800	—	PI	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ASTM B515	Incoloy 800	—	T	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe46, Ni32.5, Ti0.38
ASTM B518	In-102	—	ROD, BA	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal67.8, Ti0.5, W3,
ASTM B519	In-102	—	SH, ST, PL	N06102	US	4. Ni-Al0.5, B, Cr15, Fe7, Mg0.2, Mo2.9, Nb/Cb2.9, Ni/Bal67.8, Ti0.5, W3,
ASTM B564	Incoloy 800	—	FG	N08800	US	2. Cr, Ni, Fe-Al0.38, Cr21, Fe45, Ni32.5, Ti0.38
ASTM B572	Hastelloy X	—	ROD	N06002	US	4. Ni-Co1.5, Cr22, Fe18.5, Mo9, Ni/Bal47.3, W0.6
ASTM B574	Hastelloy C-276	—	ROD	N10276	US	4. Ni-Co2.5, Cr15.5, Fe5.5, Mo16, Ni/Bal55.4, V0.35, W3.75
ASTM B575	Hastelloy C-276	—	SH, ST, PL	N10276	US	4. Ni-Co2.5, Cr15.5, Fe5.5, Mo16, Ni/Bal55.4, V0.35, W3.75
ASTM F90	L-605, WF-11, HS25	—	Surg, IMP	R30605	US	5. Co-Co/Bal52.9, Cr20, Mn1.5, Ni10, W15
AWS A5.11	Hastelloy C	—	—	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4
AWS A5.11-76	—	—	Weld, EI.	—	US	4. Ni-
AWS A5.14	Hastelloy C	—	—	N10002	US	4. Ni-Co2.5, Cr16, Fe5, Mo17, Ni/Bal53.9, W4

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Public				
AWS A5.14-76	—	—	—	Weld.EI.	—	US	4.Ni-
AWS A5.4-69	—	—	—	Weld.EI.	—	US	4.Ni-
AWS A5.9-69	—	—	—	Weld.EI.	—	US	4.Ni-
BS HC 202	Nimocast PE 10	—	—	Castings	—	UK	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
BS HC 203	Nimocast 713	—	—	Castings	—	UK	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
BS HC 204	IN 100,PK24	—	—	Castings	N13100	UK	4.Ni-Al5.5,Co15,Cr9.5,Mo3,Ni61,W2.5
BS HR 3	Nimonic 105	—	—	BI,BA,FG	—	UK	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
BS HR 4	Nimonic 90	—	—	Seaml.T.	N07090	UK	4.Ni-Al5,Co13.2,Cr14.2,Mo4,Ni59,Ti4
BS HR 5	Nimonic 75	—	—	BI,BA,FG	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS HR 6	Nimonic PE 13	—	—	BI,BA,FG	—	UK	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
BS HR 10	Nimonic 263	—	—	BI,BA,FG	—	UK	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
BS HR 11	Nimonic PE 16	—	—	BI,BA,FG	—	UK	4.Ni-Al1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
BS HR 203	Nimonic 75	—	—	SH,ST,PL	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS HR 53	Nimonic 901	—	—	BI,BA,FG	—	UK	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
BS HR 204	Nimonic PE13	—	—	SH,ST,PL	—	UK	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
BS HR 204	Nimonic 75	—	—	—	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
BS HR 206	Nimonic 263	—	—	SH,ST,PL	—	UK	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
BS HR 207	Nimonic PE 16	—	—	SH,ST,PL	—	UK	4.Ni-Al1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
BS HR 402	Nimonic 90	—	—	Seaml.T.	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS HR 403	Nimonic 75	—	—	Seaml.T.	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS HR 404	Nimonic 901	—	—	Seaml.T.	—	UK	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
BS HR 601	Nimonic 80A	—	—	BA,W	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 1	Nimonic 80A	—	—	BI,BA,FG	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 2	Nimonic 90	—	—	BI,BA,FG	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 201	Nimonic 80A	—	—	SH,ST,PL	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
BS 2HR 202	Nimonic 90	—	SH,ST	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 401	Nimonic 80A	—	Seaml.T.	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 501	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 502	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 503	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 504	Nimonic 75	—	BA,W,RIV	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS 3072:NA15	Incoloy 800,800H	—	SH,PL	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3072:NA16	Incoloy 825	NiCr21MO	SH,PL	N08825	UK	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3073:NA15	Incoloy 800,800H	—	ST	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3073:NA16	Incoloy 825	NiCr21Mo	ST	N08825	UK	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3074:NA15	Incoloy 800,800H	—	TU	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3074:NA16	Incoloy 825	NiCr21Mo	TU	N08825	UK	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3075:NA16	Incoloy 825	NiCr21Mo	W	N08825	UK	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3076:NA15	Incoloy 800,8001	X10NiCrALT	ROD	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3076:NA16	Incoloy 825	NiCr21Mo	ROD	N08825	UK	2.Cr,Ni,Fe-Al0.15,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3146	Nimocast 80	—	—	—	UK	4.Ni-Al0.63,Cr21,Ni75,Ti2.45
BS 3146	Nimocast 242	—	—	—	UK	4.Ni-Co10,Cr22,Mo10,Ni57
BS 7075:NA15	Incoloy 800,800H	—	W	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
DIN G-NiCr13AL6Mo NB	Nimocast 713	2.4670 LN	—	—	GY	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
DIN G-NiCr13AL6MoNB	Nimocast 713	BS HC 203	Castings	—	GY	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
DIN NiCo Cr 15 MoALTi	Nimonic 105	2.4634 LN	—	—	GY	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti2
DIN NiCo Cr 15 MoALTi	Nimonic 115	2.4636 LN	—	—	GY	4.Ni-Al2B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
DIN NiCr Co 14 MoTiAL	Nimonic PK 33	—	—	—	GY	4.Ni-Al2B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
DIN NiCr 15 MoTi	Nimonic 901	2.4662 LN	—	—	GY	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
DIN Ni Cr 19 NBMo	Inconel 718	2.4665 LN	—	N07718	GY	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
DIN NiCr 20 Co 18 Ti	Nimonic 90	2.4632 LN	—	N07090	GY	4.Ni-Al11.5,Co16.5,Cr19.5,Ni59,Ti2.5
DIN NiCr 20 Ti	Nimonic 75	2.4630 LN	—	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
DIN NICR 20 TIAL	Nimonic 80A	2.4631 LN	—	N07080	GY	4.Ni-Al11.4,Cr19.5,Ni75,Ti2.4
DIN NICR 22 FE 18 MO	Nimonic PE 13	2.4665 LN	—	—	GY	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
DIN NICR21MO	Incoloy 825	2.4858	Wrought	N08825	GY	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
DIN X10NICRALTI 32 20	Incoloy 800	BS 3072:15	Wrought	N08800	GY	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
DIN X8 NICRMOTI 38 18	—	Nimonic PE 11	—	—	GY	4.Ni-Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Zr0.005
DIN X8 NICRMOTIAL4316	Nimonic PE 16	—	—	—	GY	4.Ni-Al11.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
DTD 5007 A	Nimonic 105	BS	Wrought	—	GY	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
DTD 5017 A	Nimonic 115	BS HR4	Wrought	—	UK	4.Ni-Al5,Co13.2,Cr14.2,Mo4,Ni59,Ti4
DTD 5026	A-286	1.4980 DIN	—	K66286	UK	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
DTD 5027	Nimonic 90	BS 2HR2	Wrought	N07090	UK	4.Ni-Al11.5,Co16.5,Cr19.5,Ni59,Ti2.5
DTD 5037	Nimonic PE 11	—	—	—	UK	3.Cr,Ni,Co,Fe-Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Z
DTD 5047	Nimonic PE16	—	—	—	UK	4.Ni-Al11.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
DTD 5057	Nimonic PK 33	—	—	—	UK	4.Ni-Al2,B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
DTD 703 B	Nimonic 75	2.4630 LN	—	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
DTD 736 B	Nimonic 80A	2.4631 LN	—	N07080	UK	4.Ni-Al11.4,Cr19.5,Ni75,Ti2.4
DTD 747 B	Nimonic 90	BS 2HR2	Wrought	N07090	UK	4.Ni-Al11.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2119 (Draft Std.)	A-286,Fe-PA-92HT	1.4944 LN	—	K66286	EU	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
EN2161 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—	R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2162 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—	R30605	EU	3.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2164 (Draft Std.)	L605,WF-11,HS-25	2.4964	—	R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2165 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—	R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2166 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—	R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2167 (Draft Std.)	N-155,FE PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,W2.5

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APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation	or Standard				
EN2168 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2169 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2170 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2172 (Draft Std.)	A-286,Fe-PA-92HT	1.4944 LN	—	—	K66286	EU	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
EN2173 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
EN2174 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
EN2175 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
EN2176 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	—	EU	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
EN2177 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	—	EU	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
EN2178 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	—	EU	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
EN2179 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2180 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2181 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2182 (Draft Std.)	Hastelloy X	2.4665 LN	—	N06002	—	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2183 (Draft Std.)	Hastelloy X	—	—	N06002	—	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2184 (Draft Std.)	Hastelloy X	—	—	N06002	—	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2185 (Draft Std.)	Hastelloy X	—	—	N06002	—	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2188 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	—	EU	4.Ni-A11.4,Cr19.5,Ni75,Ti2.45
EN2189 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	—	EU	4.Ni-A11.4,Cr19.5,Ni75,Ti2.45
EN2190 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	—	EU	4.Ni-A11.4,Cr19.5,Ni75,Ti2.45
EN2191 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	—	EU	4.Ni-A11.4,Cr19.5,Ni75,Ti2.45
EN2192 (Draft Std.)	Nimocast 713	—	Castings	—	—	EU	4.Ni-A1,Cr13.5,Mo4.5,Ni72,Ti0.9
EN2193 (Draft Std.)	Waspaloy	2.4654 LN	—	N07001	—	EU	4.Ni-A11.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
EN2194 (Draft Std.)	Waspaloy	2.4654 LN	—	N07001	—	EU	4.Ni-A11.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
EN2195 (Draft Std.)	Waspaloy	2.4654 LN	—	N07001	—	EU	4.Ni-A11.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Public	Designation or Standard				
EN2199 (Draft Std.)	C-263, Nimonic 263	2.4650 LN	—	—	—	EU	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
EN2200 (Draft Std.)	C-263, Nimonic 263	2.4650 LN	—	—	—	EU	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
EN2201 (Draft Std.)	C-263, Nimonic 263	2.4650 LN	—	—	—	EU	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
EN2202 (Draft Std.)	C-263, Nimonic 263	2.4650 LN	—	—	—	EU	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
EN2203 (Draft Std.)	C-263, Nimonic 263	2.4650 LN	—	—	—	EU	4. Ni-Al0.5, Co20, Cr20, Mo5.9, Ni51, Ti2
EN2233 (Draft Std.)	IN 100, NiMoCKP24	—	Castings	—	N13100	EU	4. Ni-Al5.5, B, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr
EN2237 (Draft Std.)	N-155, Fe PA 91 HT	1.4974 LN	—	—	R30155	EU	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
EN2238 (Draft Std.)	N-155, Fe PA 91 HT	1.4974 LN	—	—	R30155	EU	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
EN2239 (Draft Std.)	N-155, Fe PA 91 HT	1.4974 LN	—	—	R30155	EU	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
EN2277 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	—	EU	2. Cr, Ni, Fe-Cr11.7, Fe/Bal83.7, Mo1.75, Ni2.5, N, V0.32
EN2278 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	—	EU	2. Cr, Ni, Fe-Cr11.7, Fe/Bal83.7, Mo1.75, Ni2.5, N, V0.32
EN2279 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	—	EU	2. Cr, Ni, Fe-Cr11.7, Fe/Bal83.7, Mo1.75, Ni2.5, N, V0.32
EN2280 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	—	EU	2. Cr, Ni, Fe-Cr11.7, Fe/Bal83.7, Mo1.75, Ni2.5, N, V0.32
EN2293 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
EN2294 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
EN2295 (Draft Std.)	Nimonic 90	2.4632 LN	—	—	N07090	EU	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
EN2296 (Draft Std.)	Nimonic 90	2.4632 LN	—	—	N07090	EU	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
EN2297 (Draft Std.)	Nimonic 90	2.4632 LN	—	—	N07090	EU	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
EN2298 (Draft Std.)	Nimonic 90	2.4632 LN	—	—	N07090	EU	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
EN2299 (Draft Std.)	Nimonic 90	2.4632 LN	—	—	N07090	EU	4. Ni-Al1.5, Co16.5, Cr19.5, Ni59, Ti2.5
EN2302 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
EN2306 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
EN2307 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
EN2308 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	—	EU	4. Ni-Cr19.5, Fe4, Ni75, Ti0.4
G: , KHN55M9VYU	EP404	—	Wrought	—	—	UR	4. Ni-Al5, Cr10, Fe18, Mo9, Ni/Bal56, W5

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
G: ,KhN70MVTYuB	EI617	EI 598	Wrought	—	UR	4.Ni-Al2.B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G: ,KhEYNES-25	Haynes 25,L-605	WF-11	Wrought	—	UR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
G: ,KhEYNES-31	Haynes 31,HS31	X-40	Wrought	R30605	UR	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
G: ,KhEYNES1049	—	—	Wrought	—	UR	5.Co-Co45,Cr26,Ni10,W15
G: ,KhN50MBVYu	—	—	Wrought	—	UR	4.Ni-Al1,Cr15,Fe8,Mo7.5,Ni/Bal63.7,W4.8
G: ,KhN60MBVYu	—	—	Wrought	—	UR	4.Ni-Al1,Cr14.5,Fe6.75,Mo8,Ni/Bal64.2,W5.5
G: ,KhN60V	—	—	Wrought	—	UR	4.Ni-Al0.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G: ,KhN60VMTYu	EP487	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Fe4,Mo10,Ni/Bal59.3,Ti2.5,W4.5
G: ,KhN67MTYu	EI445,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
G: ,KhN67VMTYu	EP202	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Fe4,Mo4.5,Ni/Bal65.8,Ti2.5,W4.5
G: ,KhN72MTYu	—	—	Wrought	—	UR	4.Ni-Al1.17,Cr20,Fe0.7Mo5.1,Ni/Bal7.0,Ti3
G: ,KhN75T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G: ,KhN75T	EI435	—	Wrought	—	UR	4.Ni-Al0.15,Cr20.5,Fe3,Ni/Bal75,Ti0.25
G: ,KhN77TYu	EI437,Animonic 80	—	Wrought	N07080	UR	4.Ni-Al0.63,Cr21,Ni75,Ti2.45
G: ,KhN78T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G: ,KhN80T	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al0.63,Cr21,Ni75,Ti2.45
G: ,KhN80TYu	—	—	Wrought	—	UR	4.Ni-Al0.6,Cr19.85,Ni/Bal78.4,Ti1.17
G: ,KhN80T2Yu	—	—	Wrought	—	UR	4.Ni-Al0.67,Cr19.7,Ni/Bal77.4,Ti2.23
G: ,Kh15N60V15	EI868	—	Wrought	—	UR	4.Ni-Al0.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,Kh15N65M16[EP567	—	Wrought	—	UR	4.Ni-Cr15.5,Fe1.5,Mo16,Ni/Bal63.2,W3.75
G: ,Kh15N65M16V	EP567	—	Wrought	—	UR	4.Ni-Cr15.5,Fe1.5,Mo16,Ni/Bal63.2,W3.75
G: ,Kh15N74TYu3	—	—	Wrought	—	UR	4.Ni-Al3.3,Cr15.5,Fe5.8,Ni73.9,Ti1.46
G: ,Kh16N60Yu3	EI559A	—	Wrought	—	UR	4.Ni-Al3.3,Ce0.3,Cr16.2,Fe19,Ni/Bal61.2
G: ,Kh20N60TYu	—	—	Wrought	—	UR	4.Ni-Al0.53,Cr19.47,Fe0.7,Ni/Bal42.7,Ti1.44,W14.5
G: ,Kh20N60V20	EI868	EI868	Wrought	—	UR	4.Ni-Al0.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5

APPENDIX A7. (Continued)

	Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
G:	,Kh20N77TYur	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N77T2Yu	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N77T3Yu	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr32,Ni75,Ti2.45
G:	,Kh20N78T	EI435,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G:	,Kh20N80T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G:	,Kh20N80TYu	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N80T3	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N80T3A	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-AI1.4,Cr19.5,Ni75,Ti2.4
G:	,Kh20N80T3B	Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N80T3Yu	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh20N80YuT3	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh25N60V15	EI868	—	Wrought	N07080	UR	4.Ni-AI0.63,Cr21,Ni75,Ti2.45
G:	,Kh27N70Yu3	—	—	Wrought	—	UR	4.Ni-AI0.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G:	,Kh27N72MTYu	—	—	Wrought	—	UR	4.Ni-AI3.15,Ce0.03,Cr27.5,Fe1,Ni/Bal68.3
G:	,L114	EI857	—	Casting	—	UR	4.Ni-AI1.17,Cr20,Fe0.7,Mo5.1,Ni/Bal70,Ti3
G:	,N2	N2 ,Inconel-X	—	Wrought	—	UR	4.Ni-AI6.1,Co8.5,Cr11.25,Mo3.5,Ni/Bal64.6,Ti2.6,W3.5
G:	,SPAV-I-1570	—	—	—	—	UR	4.Ni-AI0.8,Cr14.2,Fe7.2,Ni73.4,Ti2.5
G:	,TsZh12	—	—	Wrought	—	UR	3.Cr,Ni,Co,Fe-Co39,Cr20,Fe/Bal0.5,Ni30,Ti4,W6.5
G:	,TsZh16	—	—	Wrought	—	UR	4.Ni-AI4.3,B,Co9.8,Cr10.8,Mo4.9,Ni/Bal62.7,V1.5,W6
G:	,VZh 36-300	EI929	—	Wrought	—	UR	4.Ni-AI1.9,Cr19.5,Fe1.2,Mo3.25,Ni/Bal68.9,W5.25
G:	,VZhL-1	—	—	Casting	—	UR	4.Ni-AI3.05,Co14,Cr10.5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5
G:	,VZhL-12	,IN-100	—	Casting	N13100	UR	4.Ni-AI2.75,B,Cr16.5,Fe7,Mo3.3,Ni/Bal66.9,Ti1.4,W2.2
G:	,VZhL-14	—	—	Casting	—	UR	4.Ni-AI5.5,B,Co15,Cr10,Mo3,Ni/Bal60.6,Ti4.7,V1,Zr
G:	,VZh101	EP199	EP199	Wrought	—	UR	4.Ni-AI1.6,Cr19,Fe0.14,Mo5.4,Ni/Bal71.3,Ti2.7
G:	,VZh17	—	—	Casting	—	UR	4.Ni-AI2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.8,Ti1.35,W10

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
G: ,VZh36-300	EI929,KHN55VMTFY	—	Wrought	—	UR	4.Ni-Al3.05,Co14,Cr10.5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5
G: ,VZh36L	—	—	Casting	—	UR	4.Ni-Al3.5,B,Ce0.01,Cr19,Fe1.5,Ni/Bal73.7,Ti2.3
G: ,VZh90	EI868	—	Wrought	—	UR	4.Ni-Al10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,VZh98	EI868	—	Wrought	—	UR	4.Ni-Al10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,V27-45U	—	—	Casting	—	UR	4.Ni-B,Cr20,Fe25,Ni46,W8
G: ,V56	EI868	—	Casting	—	UR	4.Ni-Al1.8,Cr14,Fe7,Ni/Bal71.8,Si2,Ti1.49,W1.9
G: ,ZhS	,Bearing A.	—	Wrought	—	UR	4.Ni-Al2.3,Co4.8,Cr19,Mo2.5,Ni/Bal65,Ti2.9,W3.5
G: ,OKh21N78T	IE435	—	Wrought	—	UR	4.Ni-Cr18.25,Fe4,Ni75,Ti2.4
G: ,OKh27N70Yu3	EI652	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe0.5,Ni/Bal68.9
G: ,12N	—	—	Wrought	—	UR	4.Ni-Al10.53,Cr19.47,Fe21.33,Ni55.68,Ti1.44
G: ,20-75BTYu	—	—	Wrought	—	UR	4.Ni-Al1,Cr20.6,Ni/Bal76.9,Ti1.5
G: ,KhN55VMTFKYuR	EI929	—	Wrought	—	UR	4.Ni-Al3.05,Co14,Cr10.5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5
G: ,Kh15N65V10M5T	EI893	—	Wrought	—	UR	4.Ni-Al1.35,B,Ce0.025,Cr16,Fe1.5,Mo4,Ni/Bal66.5,Ti1.4,W9.25
G: ,N65M18Kh15V5L	,Hast. C.	—	Wrought	—	UR	4.Ni-Cr16,Fe4.5,Mo17.5,Ni60,W5
G: ,Kh15N70V6M3TYu	EI617	EI617	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G: ,Kh18N67V5T2YUR	EI445R	—	Wrought	—	UR	4.Ni-Al1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
G: ,Kh20N67M5V3YU	EI445R	—	Wrought	—	UR	4.Ni -Al1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
G: ,Kh20N67V3T3YUR	EI445R	—	Wrought	—	UR	4.Ni-Al1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
G: ,Kh15N70V6M3TYu	EI617	—	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe2.5,Mo3,Ni/Bal70,Ti2.05,W6
G: ,Kh18N67V5M5TYu	—	—	Wrought	—	UR	4.Ni-Al1.2,B,Ce0.1,Cr18.5,Mo4.5,Ni/Bal68.7,Ti2.5,W4.5
G: 5632-72,KhN55MVYU	EP454	EP454	Wrought	—	UR	4.Ni-Al4.6,B,Ce0.1,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
G: 5632-72,KhN55M6VYU	EP454	EP454	Wrought	—	UR	4.Ni-Al4.6,B,Ce0.1,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
G: 5632-72,KhN55VMTKYUJ	EI929	EI929	Wrought	—	UR	4.Ni-Al4.05,B,Co14,Cr10.5,Fe5,Mo5,Ni/Bal58.6,Ti1.7,V0.5,W5.2
G: 5632-72,KhN56VMKYU	EP109	EP109	Wrought	—	UR	4.Ni-Al5.8,B,Ce0.02,Co12,Cr9.5,Fe1.5,Mo7.3,Ni/Bal57.2,W6.7
G: 5632-72,KhN56VMTY	EP199	EP199	Wrought	—	UR	4.Ni-Al2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.8,Ti1.35,W10

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Public	Designation				
G:5632-72,KhN57MTVYuI	EP590	EP590	EP590	Wrought	—	UR	4.Ni-Al11.25,B,Ce0.01,Cr18,Fe9,Mo9.25,Ni/Bal58,Ti2.5,W2
G:5632-72,KhN60VT	E1868	E1868	E1868	Wrought	—	UR	4.Ni-Al10.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G:5632-72,KhN60Yu	E1559A	E1559A	E1559A	Wrought	—	UR	4.Ni-Al13.1,Ba0.1,Ce0.03,Cr16.5,Fe/Bal23.8,Ni56.5
G:5632-72,KhN62MKYu	E1867	E1867	E1867	Wrought	—	UR	4.Ni-Al14.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
G:5632-72,KhN62VMKYu	E1867	E1867	E1867	Wrought	—	UR	4.Ni-Al14.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
G:5632-72,KhN65MV	EP567	EP567	EP567	Wrought	—	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
G:5632-72,KhN65VMTYu	E1893	E1893	E1893	Wrought	—	UR	4.Ni-Al11.4,B,Ce0.025,Cr16,Fe3,Mo4,Ni/Bal65,Ti1.4,W9.25
G:5632-72,KhN67MVTYu	EP202	EP202	EP202	Wrought	—	UR	4.Ni-Al11.25,B,Ce0.01,Cr18.5,Fe4,Mo4.5,Ni/Bal65.8,Ti2.5,W4.5
G:5632-72,KhN70MVTYuB	E1598	E1598	E1598	Wrought	—	UR	4.Ni-Al11.35,B,Ce0.02,Cr17.5,Fe5,Mo5,Nb/Cb0.9,Ni/Bal65.2,Ti2.35
G:5632-72,KhN70VMTYu	E1617	E1617	E1617	Wrought	—	UR	4.Ni-Al12,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G:5632-72,KhN70VMTYuF	E1826	E1826	E1826	Wrought	—	UR	4.Ni-Al2.65,B,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.7,Ti1.95,W6
G:5632-72,KhN70VMYuT	E1765	E1765	E1765	Wrought	—	UR	4.Ni-Al11.95,B,Cr15,Fe3,Mo4,Ni/Bal74.3,Ti1.2,W5
G:5632-72,KhN70Yu	E1652	E1652	E1652	Wrought	—	UR	4.Ni-Al13.15,Ba0.1,Ce0.03,Cr27.5,Fe1,Ni/Bal68.1,V0.1
G:5632-72,KhN75MBTYu	E1602	E1602	E1602	Wrought	—	UR	4.Ni-Al10.55,Cr20.5,Fe1.5,Mo1.95,Nb/Cb0.11,Ni/Bal75.3,Ti0.55
G:5632-72,KhN75VMYu	E1827	E1827	E1827	Wrought	—	UR	4.Ni-Al10.8,B,Cr20.5,Fe2,Ni/Bal74.6,Ti2.05
G:5632-72,KhN77TYuR	E1437B	E1437B	E1437B	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
G:5632-72,KhN78T	E1435,Nimonic 75	E1435,Nimonic 75	E1435	Wrought	—	UR	4.Ni-Al10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
G:5632-72,KhN80TBYu	E1607,Incon.X-750	E1607,Incon.X-750	E1607	Wrought	N07750	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
G:5632-72,0Kh15N65M16	EP567	EP567	EP567	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
GOST: ,E1421	E1421,Nimonic 75	E1421,Nimonic 75	—	Wrought	—	UR	4.Ni-Al10.63,Cr21,Ni75,Ti2.45
GOST: ,E1422	E1422,Nimonic 90	E1422,Nimonic 90	—	Wrought	N07080	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
GOST: ,E1435	E1435,Nimonic 75	E1435,Nimonic 75	—	Wrought	—	UR	4.Ni-Al10.63,Cr21,Ni75,Ti2.45
GOST: ,E1437	E1437,Nimonic 80	E1437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al10.63,Cr21,Ni75,Ti2.45
GOST: ,E1437A	E1437A,Nimonic 80	E1437A,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al10.63,Cr21,Ni75,Ti2.45
GOST: ,E1437BU	E1437BU	E1437BU	—	Wrought	—	UR	4.Ni-Al10.8,B,Cr20.5,Ni/Bal76,Ti2.7

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
GOST: ,EI437R	EI437R	—	Wrought	N07080	UR	4.Ni-A10.7,B,Cr18.5,Mo4.5,Ni/Bal69.3,Ti2.5,W4.5
GOST: ,EI444	EI444	—	Wrought	—	UR	4.Ni-A10.7,Cr20,Mo4,Ni/Bal72.8,Ti2.5
GOST: ,EI445	EI445,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A11.4,Cr19.5,Ni75,Ti2.4
GOST: ,EI445R	EI445R	—	Wrought	—	UR	4.Ni-A11.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
GOST: ,EI539	EP539	—	Wrought	—	UR	4.Ni-A12.76,B,Ce0.015,Cr17,Mo3.3,Ni/Bal70.7,Ti2.76,W5.77
GOST: ,EI559	EI559	—	Wrought	—	UR	4.Ni-A13.3,Ce0.3,Cr16.2,Fe19,Ni/Bal61.2
GOST: ,EI607A	EI607A,Inc.X-750	—	Casting	—	UR	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni72.5,Ti2.3
GOST: ,EI607AB	EI607AB	—	Wrought	—	UR	4.Ni-A12.45,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.8,Ti1.95,W6
GOST: ,EI607AL	EI607AL	—	Wrought	—	UR	4.Ni-A10.75,Cr16,Fe3,Ni/Bal78.6,Ti1.6
GOST: ,EI618	EI618,Zh53	—	Castings	—	UR	4.Ni-A11.9,B,Ce0.01,Mo3.7,Ni/Bal86.7,Ti1.95,V0.3,W5.5
GOST: ,EI650	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
GOST: ,EI652	EI652	—	Wrought	—	UR	4.Ni-A13.15,Ba0.1,Ce0.03,Cr27.5,Fe0.5,Ni/Bal68.9
GOST: ,EI661	EI661	—	Wrought	—	UR	4.Ni-A14.3,Ce0.01,Mo10.5,Ni/Bal80.2,W5
GOST: ,EI666A	EI666A	—	Wrought	—	UR	4.Ni-A15,Cr17.5,Ni60,Ti2
GOST: ,EI675	EI675	—	Wrought	—	UR	4.Ni-A11.94,B,Cr14.5,Fe0.76,Mo4.2,Ni/Bal72.1,Ti1.3,W5.2
GOST: ,EI698	EI698	—	Wrought	—	UR	4.Ni-A11.25,Cr14.5,Mo2.1,Ni/Bal79.8,Ti2.3
GOST: ,EI765L	EI765L	—	Castings	—	UR	4.Ni-A11.7,Cr14.5,Fe3,Mo19.5,Ni/Bal55.2,Ti1.15,W5
GOST: ,EI766	EI766	—	Wrought	—	UR	4.Ni-Composition Possibly Similar To EI827
GOST: ,EI766A	EI766A	—	Wrought	—	UR	4.Ni-A14,Cr10,Mo7.5,Ni/Bal69.4,Ti4.25,W4.9
GOST: ,EI826	EI826	—	Wrought	—	UR	4.Ni-A12.45,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.8,Ti1.95,W6
GOST: ,EI828	EI828	—	Wrought	—	UR	4.Ni-A14.35,B,Cr10,Fe4,Mo9,Ni/Bal67.7,W6
GOST: ,EI868	EI868,VZh90,V2H9	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
GOST: ,EI869	EI869	—	Wrought	—	UR	4.Ni-A11.25,B,Cr15.5,Fe3,Ni/Bal78.6,Ti1.7,Zr0.003
GOST: ,EI873	EI873	—	Wrought	—	UR	4.Ni-A10.88,Cr16.73,Ni/Bal80.5,Ti1.85
GOST: ,EI893L	EI893L	—	Castings	—	UR	4.Ni-A11.56,B,Ce0.02,Cr17.2,Mo3.61,Ni/Bal75.2,Ti1.54,W9

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Country				
GOST: ,EI894	EI894	—	—	Wrought	—	UR	4.Ni-Al3.1,Cr22.4,Fe9.7,Ni/Bal58,Ti1.1,W5.7
GOST: ,EI926	EI926	—	—	Wrought	—	UR	6.Composition Unknown
GOST: ,EP151	EP151	—	—	Wrought	—	UR	4.Ni-Al1.3,Cr16,Ni57.5
GOST: ,EP220	EP220	—	—	Wrought	—	UR	4.Ni-Al4.2,Co15,Cr10,Mo5.6,Ni/Bal57,Ti2.4,V0.3,W5.5
GOST: ,EP404	EP404	—	—	Wrought	—	UR	4.Ni-Al5,Cr10,Fe15,Mo9,Ni/Bal56,W5
GOST: ,EP487	EP487	—	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Fe4,Mo10,Ni/Bal59.3,Ti2.5,W4.5
GOST: ,EP487	EP487	—	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Mo10,Ni/Bal63.2,Ti2.5,W4.5
GOST: ,EP57	EP57	—	—	Wrought	—	UR	4.Ni-Al4.2,Co15,Cr10.5,Fe5,Mo5,Ni/Bal62.4,Ti2.4,W6,V0.5
GOST: ,EP677	EP677	—	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18,Fe9,Mo5.1,Ni/Bal61.2,W5.1
GOST: ,EP691	EP691	—	—	Wrought	—	UR	4.Ni-Al1.2,Cr16,Fe8,Mo8,Ni/Bal62.3,W4.5
GOST: ,EP99	EP99	—	—	Wrought	—	UR	4.Ni-Al3,Co7.5,Cr22.5,Mo4.2,Ni/Bal54.6,Ti1.25,W7
GOST:5632-72,EI435	EI435,Nimonic 75	KhN78T	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
GOST:5632-72,EI437B	EI437B	KhN77TYuR	—	Wrought	—	UR	4.Ni-Al0.8,B,Cr20.5,Fe2,Ni/Bal74.6,Ti2.05
GOST:5632-72,EI559A	EI559A	KhN60Yy	—	Wrought	—	UR	4.Ni-Al3.1,Ba0.1,Ce0.03,Cr16.5,Fe/Bal23.8,Ni56.5
GOST:5632-72,EI598	EI598	KhN70MVTYu	—	Wrought	—	UR	4.Ni-Al1.35,B,Ce0.02,Cr17.5,Fe5,Mo5,Nb/Cb0.9,Ni/Bal65.2,Ti2.35,
GOST:5632-72,EI607	EI607,Incon. X-750	KhN80TBYu	N07750	Wrought	—	UR	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
GOST:5632-72,EI617	EI617	KhN70VMTYu	—	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
GOST:5632-72,EI652	EI652	KhN70Yy	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe1,Ni/Bal68.1,V0.1
GOST:5632-72,EI765	EI765	KhN70VMYyT	—	Wrought	—	UR	4.Ni-Al1.95,B,Cr15,Fe3,Mo4,Ni/Bal74.3,Ti1.2,W5
GOST:5632-72,EI826	EI826	KhN70VMTYu	—	Wrought	—	UR	4.Ni-Al2.65,B,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.7,Ti1.95,W6
GOST:5632-72,EI827	EI827	KhN75VMYy	—	Wrought	—	UR	4.Ni-Al4.3,B,Ce0.01,Cr10,Fe5,Mo5.7,Ni/Bal69.3,V0.7,W5
GOST:5632-72,EI867	EI867	KhN62M	—	Wrought	—	UR	4.Ni-Al4.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
GOST:5632-72,EI868	EI868	KhN60BT	—	Wrought	—	UR	4.Ni-Al0.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
GOST:5632-72,EI893	EI893	KhN65VMTYu	—	Wrought	—	UR	4.Ni-Al1.4,B,Ce0.025,Cr16,Fe3,Mo4,Ni/Bal65,Ti1.4,W9.25
GOST:5632-72,EI893	EI893	KhN65VMTYu	—	Wrought	—	UR	4.Ni-Al4.05,B,Co14,Cr10.5,Fe5,Mo5,Ni/Bal58.6,Ti1.7,V0.5,W5.2

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
GOST:5632-72,EP109	EP109	KhN56UMKYu Wrought		—	UR	4.Ni-Al5.8,B,Ce0.02,Co12,Cr9.5,Fe1.5,Mo7.3,Ni/Bal57.2,W6.7
GOST:5632-72,EP199	EP199	KhN56VMTYu Wrought		—	UR	4.Ni-Al2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.8,Ti1.35,W10
GOST:5632-72,EP202	EP202	KhN67MVTYu Wrought		—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Fe4,Mo4.5,Ni/Bal65.8,Ti2.5,W4.5
GOST:5632-72,EP454	EP454	KhN55MVTYu Wrought		—	UR	4.Ni-Al4.6,B,Ce0.01,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
GOST:5632-72,EP567	EP567	KhN65MV Wrought		—	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
GOST:5632-72,EP590	EP590	KhN57MTVYu Wrought		—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18,Fe9,Mo9.25,Ni/Bal58,Ti2.5,W2
GOST:5632-72,El602	El602	KhN75MBTYu Wrought		—	UR	4.Ni-Al0.55,Cr20.5,Fe1.5,Mo1.95,Nb/Cb0.11,Ni/Bal75.3,Ti0.55
HC 100	Inspect. Proced.	— Castings		—	UK	6.No Composition, Inspection Procedure.
HC 201	—	— Castings		—	UK	4.Ni-Al6,Cr11,Mo3,Nb/Cb2,Ni/Bal74.5,W3.5
HC 202	Nimocast PE10	— Castings		—	UK	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
HC 205	—	— Castings		—	UK	4.Ni-Co20,Cr20,Mo6,Ni/Bal52,Ti2
HC 206	—	— Precip C		—	UK	4.Ni-Co20,Cr20,Mo6,Ni/Bal52,Ti2
HR 40	—	— BI,BA,FG		—	UK	5.Co-Co/Bal53.5,Cr20,Mn1.5,Ni10,W15
HR 51	A-286,BS 5076	Fe-PA92-HT BI,BA,FG		K66286	UK	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
HR 52	A-286,BS 5076	Fe-PA92-HT BI,BA,FG		K66286	UK	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
ISO NO. 5 Temp. Desig.	Inconel 601	—	—	N06601	XX	4.Ni-Al1.35,Cr23,Fe14.1,Ni60.5
ISO NO. 6 Temp. Desig.	Inconel X-750	—	—	N07750	XX	4.Ni-Al0.75,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
ISO NO. 7 Temp. Desig.	Inconel 718	—	—	N07718	XX	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.5,Nb/Cb5.13,Ni52.5,Ti0.9
ISO NO. 8 Temp. Desig.	Incoloy 800	—	—	N08800	XX	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
ISO NO. 9 Temp. Desig.	Incoloy 800H	—	—	N08810	XX	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
ISO NO.10 Temp. Desig.	Incoloy 801	—	—	N08801	XX	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
ISO NO.11 Temp. Desig.	Incoloy 825	—	—	N08825	XX	2.Cr,Ni,Fe-Al0.15,Cr21.5,Cu2.3,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ISO NO.12 Temp. Desig.	Nimonic 75	—	—	—	XX	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
ISO NO.13 Temp. Desig.	Nimonic 80A	—	—	N07080	XX	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
ISO NO.14 Temp. Desig.	Nimonic 90	—	—	N07090	XX	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
ISO NO.15 Temp. Desig.	Nimonic 105	—	—	—	XX	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
ISO NO.16 Temp. Desig.	Nimonic 263	—	—	—	XX	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
ISO NO.17 Temp. Desig.	Nimonic 901	—	—	—	XX	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
ISO NO.18 Temp. Desig.	Hastelloy B2	—	—	N10655	XX	4.Ni-Co0.5,Cr0.5,Fe1,Mo28,Ni/Bal70
ISO NO.19 Temp. Desig.	Hastelloy X	—	—	N06002	XX	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ISO NO.20 Temp. Desig.	Waspaloy	—	—	N07001	XX	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.10,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
ISO NO.23 Temp. Desig.	Hastelloy B	—	—	N10001	XX	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ISO NO.24 Temp. Desig.	Hastelloy C-276	—	—	N10276	XX	4.Ni-Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4,V0.35,W3.75
ISO NO.25 Temp. Desig.	Hastelloy C-4	—	—	—	XX	4.Ni-Co2,Cr16,Fe3,Mo15.5,Ni/Bal62.8,Ti0.7
ISO NO.26 Temp. Desig.	Hastelloy G	—	—	—	XX	4.Ni-Co2.5,Cr22.25,Cu2,Fe19.5,Mo6.5,Nb/Cb2,Ni/Bal46.5,W1
ISO NO.27	—	—	—	—	XX	4.Ni-Co1.5,Cr15.5,Fe8,Ni72
JIS G4901	—	—	BA	—	JA	6. No Composition Reported.
JIS G4902	—	—	SH,PL	—	JA	6. No Composition Reported.
JIS G4903	—	—	SEAML.P.	—	JA	6. No Composition Reported.
JIS G4904	—	—	HEAT.EXT	—	JA	6. No Composition Reported.
MIL-N-18088	Hastelloy C	AMS 5388	SH,PL	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
MIL-N-24114	Inconel X-750	AISI 688	BA,ROD,Fg	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-N-7786	Inconel X-750	AISI 688	SH,ST	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-N-8650	Inconel X-750	AISI 688	—	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-R-17131	Stellite 6	—	ROD,POWD	—	US	5.Co-Co/Bal68,Cr26,W5
MIL-R-5031 Class 13	L-605,WF11,HS-25	AISI 670	ROD,WIRE	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
MIL-R-5031 Class 6	19-WMo	AISI 652	ROD,WIRE	K63199	US	2.Cr,Ni,Fe-Cr19,Fe/Bal68.3,Mo0.4,Nb/Cb0.44,Ni9,Ti0.4,W1.3
MIL-R-5031 Class 9	N-155	AISI 661	ROD,WIRE	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
MIL-S-16538	16-25-6	—	FG	—	US	2.Cr,Ni,Fe-Cr16,Fe/Bal50.7,Mn1.35,Mo6,Ni25,N
MIL-S-21977	Inconel X-750	AISI 688	—	N07750	US	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
MIL-S-23192	Inconel X-750	AISI 688	—	N07750	US	4.Ni-Al 0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
RSABS MH.03	Nimonic PE 13	HastelloyX	—	N06002	SW	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
RSABS MH.04	Inconel X-750	—	—	N07750	SW	4.Ni-Al0.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
RSABS MH.05	Nimonic 75	NI-P91-HT	—	—	SW	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
RSABS MH.06	Inconel 718	NI-P100-HT	—	N07718	SW	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
RSABS MH.07	Nimonic 80A	NI-P95-HT	—	N07080	SW	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
RSABS MH.10	Nimonic 90	NI-P96-HT	—	N07090	SW	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
RSABS MH.14	Nimonic 105	NI-P61-HT	—	N09901	SW	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2
RSABS MH.16	Nimonic 901	Incoloy 901	—	N09901	SW	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
RSABS MH.31	Nimocast 713	—	—	N07713	SW	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
RSABS MH.45	Nimonic 90	—	—	N07090	SW	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
SAE J467 (A286)	A-286	AISI 660	—	K66286	US	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
SAE J467 (D-979)	D-979	—	—	K66979	US	2.Cr,Ni,Fe-Al1,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
SAE J467 (Discaloy)	Discaloy	AISI 662	—	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75
SAE J467 (W545)	W-545	AISI 665	—	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
SAE J467(D-979)	D-979	—	—	N09979	US	2.Cr,Ni,Fe-Al1,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
SAE J467(19-9DL)	19-9DL	AISI 651	—	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
SAE J467(19-9DX)	19-9DX	AISI 652	—	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
SAE J467(422)	422	AISI 422	—	S42200	US	1.Fe,Mart.Ss-Cr12,Fe/Bal83.8,Mo1,Ni0.7,V0.25,W1
SAE J467,Greek Ascoloy	Greek Ascoloy	AISI 615	—	S41800	US	1.Fe,Mart.Ss-Cr13,Fe/Bal81.2,Ni2,W3
TU14-1-913-74 EP879	—	EP879	—	—	UR	4.Ni-Al3,B,Ce0.07,Co7.5,Cr8.5,Mo14,Nb/Cb4,Ni/Bal61.8,Ti1.2
Werkstoff 1.4876	Incoloy 800,800H	BS 3072:15	Wrought	N08800	GY	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
Werkstoff 1.4911 LN	AECMA:FE-PM 36	HR 56	BA,RD,FG	—	GY	3.Cr,Ni,Co,Fe-B,Co6.25,Cr10.6,Fe/Bal81,Mo0.8,Nb/Cb0.4,Ni0.7,N,V
Werkstoff 1.4914 LN	AECMA:FE-PM 38	Z 10 CKD10	BA,RD,FG	—	GY	3.Cr,Ni,Co,Fe-B,Co6,Cr10.5,Fe/Bal81.4,Mo0.8,Nb/Cb0.3,Ni0.5,N,V
Werkstoff 1.4944 LN	A-286	FE-PA92-HT	Wrought	K66286	GY	2.Cr,Ni,Fe-Al0.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3

APPENDIX A7. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Public				
Werkstoff 1.4971 DIN	N-155	Fe-PA91-HT	Wrought	R30155	GY	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5	
Werkstoff 1.4974 LN	N-155	Fe-PA91-HT	BA,FG,SH	R30155	GY	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5	
Werkstoff 1.4977 DIN	S-590	AMS 5533	Wrought	R30590	GY	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4	
Werkstoff 1.4978 DIN	S-590	AMS 5533	Wrought	R30590	GY	3.Cr,Ni,Co,Fe-Co20,Cr20.5,Fe/Bal25.4,Mn1.25,Mo4,Nb/Cb4,Ni20,W4	
Werkstoff 1.4980 DIN	A-286	Fe-PA92-HT	—	K66286	GY	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
Werkstoff 2.4054	Waspaloy	—	—	N07001	GY	4.Ni-Al11.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr	
Werkstoff 2.4482	Hastelloy B	2.4600	—	N10001	GY	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	
Werkstoff 2.4537	Hastelloy C	2.4602	—	N10002	GY	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4	
Werkstoff 2.4600	Hastelloy B	—	—	N10001	GY	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3	
Werkstoff 2.4602	Hastelloy C	—	—	N10002	GY	4.Ni-Cr16,Fe5,Mo17,Ni/Bal53.9,W4	
Werkstoff 2.4613	Hastelloy X	NiCr 20 Ti	BA,FG,SH	N06002	GY	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6	
Werkstoff 2.4630 LN	Nimonic 75	NiCr20TiAl	BA,FG,SH	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4	
Werkstoff 2.4631 LN	Nimonic 80A	NiCr20Co18	BA,FG,SH	N07080	GY	4.Ni-Al11.4,Cr19.5,Ni75,Ti2.4	
Werkstoff 2.4632 LN	Nimonic 90	NiCoCr15	BA,FG,SH	N07090	GY	4.Ni-Al11.5,Co16.5,Cr19.5,Ni59,Ti2.5	
Werkstoff 2.4634 LN	Nimonic 105	Ni-P102-HT	BA,SH,ST	—	GY	4.Ni-Al4.7,Co20,Cr15,Mo5,Ni53,Ti1.2	
Werkstoff 2.4636 LN	Nimonic 115	Ni-P102-HT	—	—	GY	4.Ni-Al5,Co13.2,Cr14.2,Mo4,Ni59,Ti4	
Werkstoff 2.4650 LN	C-263	Nimon. 263	—	—	GY	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2.2	
Werkstoff 2.4662 LN	Nimonic 901	Incoloy 901	—	N09901	GY	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9	
Werkstoff 2.4665 LN	Nimonic PE 13	HastelloyX	—	N06002	GY	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo0.9,Ni98,W0.6	
Werkstoff 2.4666 LN	Nimonic PK25	—	—	—	GY	4.Ni-Al2.7,Co17.5,Cr18,Mo4,Ni54,Ti2.9	
Werkstoff 2.4668 LN	Inconel 718	NiCr19NbMo	Wrought	N07718	GY	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9	
Werkstoff 2.4670 LN	Nimocast 713	Alloy 713C	Cast	N07713	GY	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9	
Werkstoff 2.4856	Inconel 625	—	—	N06625	GY	4.Ni-Al0.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2	
Werkstoff 2.4856	Incoloy 800	X10NiCrAlT	—	N08800	GY	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38	
Werkstoff 2.4858 LN	Incoloy 825	NiCr21Mo	Wrought	N08825	GY	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9	

APPENDIX A7. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
Werkstoff 2.4951 DIN	Nimonic 75	NiCr 20 Ti	—	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
Werkstoff 2.4952 DIN	Nimonic 80A	NiCr20TiAl	Wrought	N07080	GY	4.Ni-Al11.4,Cr19.5,Ni75,Ti2.4
Werkstoff 2.4964 LN	L-605,WF-11,HS25	Co-P 92-HT	—	R30605	GY	5.Co-Co/Bal42.3,Cr25,Fe3,Mn1,Mo4,Nb/Cb2,Ni20,W2
Werkstoff 2.4966	X-40,ROSS ST31	BS ANC 13	Castings	R30031	GY	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
Werkstoff 2.4967 DIN	L-605,WF-11,HS25	2.4964 LN	—	R30605	GY	5.Co-Co/Bal42.3,Cr25,Fe3,Mn1,Mo4,Nb/Cb2,Ni20,W2
Werkstoff 2.4969 DIN	Nimonic 90	NiCr20Co18	—	N07090	GY	4.Ni-Al11.5,Co16.5,Cr19.5,Ni59,Ti2.5
Werkstoff 2.4972 DIN	Hastelloy X	Ni-P 93-HT	—	N06002	GY	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
Werkstoff 2.4973 DIN	Afnor NC 20 KDTA	NiCr19CoMo	RENE 41	N07041	GY	4.Ni-Al11.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
Werkstoff 2.4975 DIN	Incoloy 901	Fe-PA99-HT	—	N09901	GY	2.Cr,Ni,Fe-Al0.25,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5
Werkstoff 2.4976 DIN	AFNOR NC 20 DTA	NiCr 20 Mo	—	—	GY	4.Ni-Al11.4,Cr20,Fe1,Mo4.5,Ni/Bal70.7,Ti2.4
Werkstoff 2.4979	Stellite 21	—	—	R30021	GY	5.Co-Co/Bal62,Cr27,Fe1,Mo5,Ni3
Werkstoff 2.4982 DIN	AFNOR NC 20 KDTA	NiCr20CoMo	—	—	GY	4.Ni-Al11.5,Co18,Cr20,Fe2.5,Mo4.5,Ni/Bal51,Ti2.5
Werkstoff 2.4983 DIN	Udimet 500	Ni-P94-HT	—	N07500	GY	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
Werkstoff 2.4989 DIN	S-816	CoCr20Ni20	—	R30816	GY	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mo4,Nb/Cb4,Ni20,W4
2HR 100	Inspect. Proced.	—	—	—	UK	6.No Composition Reported, Inspection Procedures.
G: ,KhN80	EI435	—	—	—	UR	4.Ni-Al0.15,Cr20.5,Fe3,Ni/Bal75,Ti0.25

FOOTNOTES

(a)

AECMA	Association Europeene Des Constructeurs De Material
AFNOR	Aerospatial (Formerly AICMA).
AIR	Association Francaise De Normalization.
AMS	Ministere Des Armees, Repertoire Des Reglements Air.
ANSI	Aerospace Material Specification (By SAE).
ASME	American National Standards Institute.
ASTM	American Society Of Mechanical Engineers.
AWS	American Society For Testing And Materials.
BS	American Welding Society.
DTD	British Standard Specifications.
	British Ministry Of Defence.

APPENDIX A7. (Continued)

FOOTNOTES

DIN	German Standard Specification (Per DIN 17006). Deutscher Normenausschluss.
EN	Euronorm (European Economic Community).
GOST:	USSR State Standards Committee Specifications.
G:	USSR State Standards Committee Specifications. International Organization For Standardization.
ISD	Japanese Standards Institute.
JIS	US Military Specifications.
MIL	Pratt-Whitney Aircraft Co.
PW	Rolls Royce Ltd.
RR	Royal Swedish Air Board Specifications. Also called Swedish Defence Material Administration.
RSABS	Society Of Automotive Engineers.
SAE	Blattar-Stahl und Eiser Werkstoffblatt.
SEW	Unified Numbering System For Metals And Alloys - (SAE/ASTM).
UNS	German Association For Technical Supervision.
VDTU	German Aeronautical Material Numbers (Leistungsblatt).
WERKSTOFF NL	German Material Numbers.
WERKSTOFF DIN	Czechoslovakian Standard Numbers.
CSN	Soviet Technical Specifications.
TU	Soviet Aviation Metallurgical Specifications.
AMTU	

APPENDIX A7. (Continued)

FOOTNOTES (b)

BA	Bar
BI	Billets
Bolts,S.	Bolts, Screws
Cast.	Castings
FG	Forgings
H.Exch.T.	Heat Exchanger Tubing
Invest.C.	Investment Castings
Inspect. Procd.	Inspection Procedures
Powd.	Powder
Precis.C.	Precision Castings
Seaml.P.	Seamless Pipe
S.L.PI	Seamless Pipe
Seaml.T.	Seamless Tubing
SH	Sheet
ST	Strip
T	Tubing
Thread.W.	Wire Thread Inserts
R	Rods
W	Wire
Weld.El.	Welding Electrodes
Weld.Fit.	Welding Fittings
Weld.T.	Welded Tubing
Weld.W.	Welding Wire
RIV	Rivets
Surg.Imp.	Surgical Implants

APPENDIX A7. (Continued)

FOOTNOTES (c)

1. Ferritic (Mart.) SS	Ferritic (Martensitic) Stainless Steel
1A. Ferritic (Age-Hardenable) SS	Ferritic (Age-Hardenable) Stainless Steel
2. Cr, Ni, Fe	Chromium, Nickel, Iron, Manganese Alloy
2A. Cr, Ni, Fe, Mn	Chromium, Nickel, Iron, Manganese Alloy
3. Cr, Ni, Co, Fe	Chromium, Nickel, Cobalt, Iron Alloy
4. Ni	Nickel-Base Alloy
5. Co	Cobalt-Base Alloy

**APPENDIX A8. NATIONAL STANDARDS FOR SUPERALLOYS WITH THE CORRESPONDING
NOMINAL COMPOSITIONS (Alphanumerical By Nominal Composition)**

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
		Designation or Standard	Designation or Standard				
ASTM A565, Grade 616	422	AISI 422	BA, FG	BA, FG	S42200	US	1. Fe, Mart. SS-Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1
SAE J467(422)	422	AISI 422	—	—	S42200	US	1. Fe, Mart. SS-Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1
ASTM A565, Grade 619	Lapelloy	AISI 619	BA, FG	BA, FG	S42900	US	1. Fe, Mart. SS-Cr12, Fe/Bal83, Mn1, Mo2.75, Ni0.3, V0.25
AMS 5616	Greek Ascoloy	—	BA, FG, TR	BA, FG, TR	S41800	US	1. Fe, Mart. SS-Cr13, Fe/Bal81.2, Ni2, W3
AMS 5817	Greek Ascoloy	—	Weld. W.	Weld. W.	S41800	US	1. Fe, Mart. SS-Cr13, Fe/Bal81.2, Ni2, W3
AMS 7470	Greek Ascoloy	AISI 615	Bolts, S.	Bolts, S.	S41800	US	1. Fe, Mart. SS-Cr13, Fe/Bal81.2, Ni2, W3
ASTM A565, Grade 615	Greek Ascoloy	AISI 619	BA, FG	BA, FG	S41800	US	1. Fe, Mart. SS-Cr13, Fe/Bal81.2, Ni2, W3
SAE J467, Greek Ascolo	Greek Ascoloy	AISI 615	—	—	S41800	US	1. Fe, Mart. SS-Cr13, Fe/Bal81.2, Ni2, W3
AMS 5655	422	AISI 422	BA, FG	BA, FG	S42200	US	1. Ferritic (Mart.) SS-Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1
AISI 616	422	AISI 616	Wrought	Wrought	S42200	US	1. Ferritic (Mart.) SS-Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1
AISI 422	422	AMS 5655	Wrought	Wrought	S42200	US	1. Ferritic (Mart.) SS-Cr12, Fe/Bal83.8, Mo1, Ni0.7, V0.25, W1
AISI 619	Lapelloy	ASTM A565	Wrought	Wrought	S42300	US	1. Ferritic (Mart.) SS-Cr12, Fe/Bal83, Mn1, Mo2.75, Ni0.3, V0.25
AMS 5508	Greek Ascoloy	—	SH, ST, PL	SH, ST, PL	S41800	US	1. Ferritic (Mart.) SS-Cr13, Fe/Bal81.2, Ni2, W3
AMS 5354	Greek Ascoloy	AISI 615	Casting	Casting	S41800	US	1. Ferritic (Mart.) SS-Cr13, Fe/Bal81.2, Ni2, W3
AISI 615	Greek Ascoloy	—	Wrought	Wrought	S41800	US	1. Ferritic (Mart.) SS-Cr13, Fe/Bal81.2, Ni2, W3
AMS 5748	AFC-77	—	BA, FG, R	BA, FG, R	K65770	US	1A. Ferritic (Age-Hardenable) SS-Co13, Cr14.5, Fe/Bal67, V0.4
ASME SB163	Incoloy 825	—	—	—	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASME SB423	Incoloy 825	—	—	—	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASME SB424	Incoloy 825	—	—	—	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASME SB425	Incoloy 825	—	—	—	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B163	Incoloy 825	—	H. Exch. T	H. Exch. T	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B423	Incoloy 825	—	PI, T	PI, T	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B424	Incoloy 825	—	SH, ST, PL	SH, ST, PL	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
ASTM B425	Incoloy 825	—	BA, ROD	BA, ROD	N08825	US	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9
BS 3072:NA16	Incoloy 825	NiCr21Mo	SH, PL	SH, PL	N08825	UK	2. Cr, Ni, Fe-Al0.15, Cr21.5, Cu2.2, Fe30, Mn1, Mo3, Ni41.8, Ti0.9

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Related UNS Forms(b)	Country Code	Nominal Composition, weight percent(c)
		Designation	or Standard			
BS 3073:NA16	Incoloy 825	NiCr21Mo	ST	N08825	UK	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3074:NA16	Incoloy 825	NiCr21Mo	TU	N08825	UK	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3075:NA16	Incoloy 825	NiCr21Mo	W	N08825	UK	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
BS 3076:NA16	Incoloy 825	NiCr21Mo	ROD	N08825	UK	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
Werkstoff 2.4858 LN	Incoloy 825	NiCr21Mo	Wrought	N08825	GY	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
DIN NiCr21Mo	Incoloy 825	2.4858	Wrought	N08825	GY	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
AFNOR NC 21 FEDU	Incoloy 825	—	—	N08825	FR	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.2,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
ISO No.11 Temp.Desig.	Incoloy 825	—	—	N08825	XX	2.Cr,Ni,Fe-A10.15,Cr21.5,Cu2.3,Fe30,Mn1,Mo3,Ni41.8,Ti0.9
EN2173 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
EN2174 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
EN2175 (Draft Std.)	Fe-PA-93-HT	1.4943 LN	—	—	EU	2.Cr,Ni,Fe-A10.17,B,Cr13.75,Fe/Bal56.4,Mo1.25,Ni25.5,Ti1.85,V0
AIR 9165-071	A-286	E-Z 6NCT25	BA	K66286	FR	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AFNOR E-Z 6 NCT 25	A-286	E-Z 6NCT25	BA	K66286	FR	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AECMA Fe-PA-92 HT	A-286	E-Z 6NCT25	BA	K66286	FR	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5525	A-286	AISI 660	SH,ST,PL	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5731	A-286	AISI 660	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5732	A-286	AISI 660	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5734	A-286	AISI 660	BA,FG,T	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5735	A-286	AISI 660	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5736	A-286	AISI 660	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5737	A-286	AISI 660	B,FG,T,R	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5804	A-286	AISI 660	Weld.W.	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 5805	A-286	AISI 660	Weld.W.	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7235	A-286	AISI 660	Rivets	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7478	A-286	AISI 660	Bolts,S.	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7479	A-286	AISI 660	Bolts,S.	K66286	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3
AMS 7481	A-286	AISI 660	Studs	K66206	US	2.Cr,Ni,Fe-A10.2,B,Cr15,Fe/Bal53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Country				
AMS 7479	A-286	AISI 660	801ts,S.	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
AMS 7481	A-286	AISI 660	Studs	K66206	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
AISI 660	A-286	AISI 660	—	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
ASME SA638 Grade 650	A-286	AISI 660	8A,FG	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
ASTM A453 Grade 660	A-286	AISI 660	Bolting	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
ASTM A638 Grade 660	A-286	AISI 660	8A,FG	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
SAE J467 (A286)	A-286	AISI 660	—	K66286	US	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
Werkstoff 1.4980 DIN	A-286	Fe-PA92-HT	—	K66286	GY	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
Werkstoff 1.4944 LN	A-286	Fe-PA92-HT	Wrought	K66286	GY	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
EN2119 (Draft Std.)	A-286,Fe-PA-92HT	1.4944 LN	—	K66286	EU	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
EN2172 (Draft Std.)	A-286,Fe-PA-92HT	1.4944 LN	—	K66286	EU	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
DTD 5026	A-286	1.4980 DIN	—	K66286	UK	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
HR 51	A-286,BS 5076	Fe-PA92-HT	81,8A,FG	K66286	UK	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
HR 52	A-286,8S 5076	Fe-PA92-HT	81,8A,FG	K66286	UK	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
AFNOR Z 6 NCT 25	A-286	Fe-PA92-HT	—	K66285	FR	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
AFNOR Z 06 NCT 25	A-286	Fe-PA92-HT	—	K66286	FR	2.Cr,Ni,Fe-A10.2,8,Cr15,Fe/8al53,Mn1.4,Mo1.25,Ni26,Ti2.15,V0.3	
AISI 663	V-57	—	Wrought	—	US	2.Cr,Ni,Fe-A10.25,8,Cr14.8,Fe/8al52.2,Mo1.25,Ni27,Ti3,V0.5	
AISI 681	Incoloy 901	—	—	N09901	US	2.Cr,Ni,Fe-A10.25,8,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.25	
AISI 682	Incoloy 901 + Ti	—	—	N09901	US	2.Cr,Ni,Fe-A10.25,8,Cr13.5,Fe34,Mo5.7,Ni42.5,Ti2.85	
AIR 9165-081	Incoloy 901	7 8 NCDT42	8A,FG	N09901	FR	2.Cr,Ni,Fe-A10.25,8,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5	
AFNOR Z 8 NCDT 42	Incoloy 901	Z 8 NCDT42	BA,FG	N09901	FR	2.Cr,Ni,Fe-A10.25,8,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5	
Werkstoff 2.4975 DIN	Incoloy 901	Fe-PA99-HT	—	N09901	GY	2.Cr,Ni,Fe-A10.25,8,Cr13.5,Fe34,Mo6.2,Ni42.7,Ti2.5	
AIR 9165-061	Discaloy	Z 3 NCT 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-A10.35,8,Cr14.7,Fe/8al55,Mn1.5,Mo1.2,Ni25.5,Ti1.85,V	
AFNOR Z 3 NCT 25	Discaloy	Z 3 NCT 25	BA,FG,SH	—	FR	2.Cr,Ni,Fe-A10.35,8,Cr14.7,Fe/8al55,Mn1.5,Mo1.2,Ni25.5,Ti1.85,V	
AECMA Fe-PA 93 HT	Discaloy	Z 3 NCT 25	8A,FG,SH	—	FR	2.Cr,Ni,Fe-A10.35,8,Cr14.7,Fe/8al55,Mn1.5,Mo1.2,Ni25.5,Ti1.85,V	

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
AMS 5766	Incoloy 800	—	BA,FG	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
AMS 5871	Incoloy 800	—	SH,ST,PL	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.72	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.15	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.41	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.39	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.40	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.23	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ANSI H34.24	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB163	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB407	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB408	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASME SB409	Incoloy 800	—	—	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B163	Incoloy 800	—	H.Exch.T	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B366	Incoloy 800	—	Weld.Fit	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B407	Incoloy 800	—	PI,T	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B408	Incoloy 800	—	ROD,BA	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B409	Incoloy 800	—	SH,ST,PL	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B514	Incoloy 800	—	PI	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B515	Incoloy 800	—	T	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
ASTM B564	Incoloy 800	—	FG	N08800	US	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3072:NA15	Incoloy 800,800H	—	SH,PL	N08800	UK	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3073:NA15	Incoloy 800,800H	—	ST	N08800	UK	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 3074:NA15	Incoloy 800,800H	—	TU	N08800	UK	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38
BS 7075:NA15	Incoloy 800,800H	—	W	N08800	UK	2.Cr,Ni,Fe-A10.38,Cr21,Fe46,Ni32.5,Ti0.38

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b) Number	Related UNS	Country Code	Nominal Composition, weight percent (c)
BS 3076:NA15	Incoloy 800,8001	X10NiCrAlTi	ROD	N08800	UK	2.Cr,Ni,Fe-Al0.38,Cr21,Fe46,Ni32.5,Ti0.38
Werkstoff 2.4856	Incoloy 800	X10NiCrAlTi	—	N08800	GY	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
ISO NO. 8 Temp.Desig.	Incoloy 800	—	—	N08800	XX	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
ISO No. 9 Temp.Desig.	Incoloy 800H	—	—	N08810	XX	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
Werkstoff 1.4876	Incoloy 800,800H	BS 3072:15	Wrought	N08800	GY	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
DIN X10NiCrAlTi 32 20	Incoloy 800	BS 3072:15	Wrought	N08800	GY	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
AFNOR 25 NC 35 20	Incoloy 800	—	—	N08800	FR	2.Cr,Ni,Fe-Al0.28,Cr21,Fe46,Ni32.5,Ti0.38
AMS 5633	CG-27	—	BA,FG	N09027	US	2.Cr,Ni,Fe-Al1.5,B,Cr13,Fe/Bal38.6,Mo5.5,Nb/Cb0.6,Ni38,Ti2.5
AMS 5634	CH-27	—	BA,FG	N09027	US	2.Cr,Ni,Fe-Al1.5,B,Cr13,Fe/Bal38.6,Mo5.5,Nb/Cb0.6,Ni38,Ti2.5
AMS 5746	D-979	AISI 664	BA,FG	K66979	US	2.Cr,Ni,Fe-Al1.5,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AMS 5509	D-979	AISI 664	SH,ST,PL	K66979	US	2.Cr,Ni,Fe-Al1.5,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
SAE J467 (D-979)	D-979	—	—	K66979	US	2.Cr,Ni,Fe-Al1.5,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AISI 664	D-979	—	—	N09979	US	2.Cr,Ni,Fe-Al1.5,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
SAE J467 (D-979)	D-979	—	—	N09979	US	2.Cr,Ni,Fe-Al1.5,B,Cr15,Fe27,Mo4,Ni45,Ti3,W4
AMS 5741	W-545	AISI 665	BA,FG	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
AMS 5543	W-545	AISI 665	SH,ST	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
AISI 665	W-545	AISI 665	—	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
ASTM A453 Grade 665	W-545	AISI 665	Bolting	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
SAE J467 (W545)	W-545	AISI 665	—	K66545	US	2.Cr,Ni,Fe-B,Cr13.5,Fe/Bal54.5,Mn1.75,Mo1.8,Ni25,Ti2.85
ANSI H34.15	Hastelloy F	—	—	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
ASME SB436	Hastelloy F	—	—	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
ASTM B366	Hastelloy F	—	Weld.Fit	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
ASTM B436	Hastelloy F	—	SH,PL	N06001	US	2.Cr,Ni,Fe-Co2.5,Cr22,Fe/Bal16,Mn1.5,Mo6.5,Nb/Cb2,Ni45.5,Si1,W1
AIR 9165-011	AECMA Fe-PM 35	Z 20CDNB11	BA,FG	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4
AFNOR Z 20 CDNB 11	Fe-PM-35	Z 20CDNB11	BA,FG	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Country	Public					
AECMA Fe-PM 35	—	Z 20CDNB11	BA,FG	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.5,Mo0.75,Nb/Cb0.3,Ni0.5,V0.4		
AECMA Fe-PM 36	Werk. 1.4914 LN	Z18CoVNB11	Wrought	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.7,Mo0.6,Nb/Cb0.25,Ni0.7,V0.3		
AFNOR 7 12 CND 12	Werk. 1.4914 LN	Fe-PM 36	Wrought	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.7,Mo0.6,Nb/Cb0.25,Ni0.7,V0.3		
AFNOR Z 10 CKD 10	Werk. 1.4914 LN	Fe-PM 38	Wrought	—	FR	2.Cr,Ni,Fe-Cr11.5,Fe/Bal86.7,Mo0.6,Nb/Cb0.25,Ni0.7,V0.3		
EN2277 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	EU	2.Cr,11.7,Fe/Bal83.7,Mo1.75,Ni2.5,N,V0.32		
EN2278 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	EU	2.Cr,Ni,Fe-Cr11.7,Fe/Bal83.7,Mo1.75,Ni2.5,N,V0.32		
EN2279 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	EU	2.Cr,Ni,Fe-Cr11.7,Fe/Bal83.7,Mo1.75,Ni2.5,N,V0.32		
EN2280 (Draft Std.)	Fe-PM 37	1.4939 LN	—	—	EU	2.Cr,Ni,Fe-Cr11.7,Fe/Bal83.7,Mo1.75,Ni2.5,N,V0.32		
AFNOR Z 18 CVD NB 11	—	Fe-PM 37	Wrought	—	FR	2.Cr,Ni,Fe-Cr12,Fe/Bal83.5,Mo1.75,Ni2.35,V0.3		
AECMA Fe-PM 37	—	Z12CND 12	Wrought	—	FR	2.Cr,Ni,Fe-Cr12,Fe/Bal83.5,Mo1.75,Ni2.35,V0.3		
AMS 5733	Discaloy	AISI 662	BA,FG	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
ASTM A453 Grade 662	Discaloy	AISI 662	Bolting	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
ASTM A638 Grade 662	Discaloy	AISI 662	BA,FG	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
SAE J467 (Discaloy)	Discaloy	AISI 662	—	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
AISI 662	Discaloy	AISI 662	—	K66220	US	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
AFNOR Z 4 NCDT 26	Discaloy	AMS 5733	—	K66220	FR	2.Cr,Ni,Fe-Cr13.5,Fe/Bal55.8,Mo3,Ni25,Ti1.75		
AISI 653	17-14 CuMo	—	Wrought	—	US	2.Cr,Ni,Fe-Cr15.9,Cu3,Fe/Bal62.4,Mo2.5,Nb/Cb0.45,Ni14.1,Ti0.25		
MIL-S-16538	16-25-6	—	FG	—	US	2.Cr,Ni,Fe-Cr16,Fe/Bal50.7,Mn1.35,Mo6,Ni25,N		
AISI 650	16-25-6	—	Wrought	—	US	2.Cr,Ni,Fe-Cr16,Fe/Bal50.7,Mo6,Ni25,N,Mn1.35		
AIR 9165-041	—	Z 10 CNW17	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Cr17,Fe/Bal67.3,Ni12.5,Ti0.6,W3.2		
AFNOR Z 10 CNW 17	—	Z 10 CNW17	BA,FG,SH	—	FR	2.Cr,Ni,Fe-Cr17,Fe/Bal67.3,Ni12.5,Ti0.6,W3.2		
AMS 5592	RA-330	—	SH,ST,PL	N06330	US	2.Cr,Ni,Fe-Cr18.5,Cu0.25,Fe/Bal45.7,Ni35.5		
AMS 5729	19-90X,19-9-W-Mo	AISI 652	BA TO 1.	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mn1,Mo1.50,Ni19,Ti0.55,W1.2		
AMS 5723	19-9DX,19-9-W-Mo	AISI 652	BA,FG,R	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1		
AMS 5724	19-9DX,19-9-W-Mo	AISI 652	BA TO 1	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1		

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AISI 652	19-9DX	AISI 652	8A,FG,SH	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
SAE J467(19-9D X)	19-9DX	AISI 652	—	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.5,Ni9,Ti0.55,W1.2,Mn1
AMS 5538	19-9DX,19-9-W-Mo	AISI 652	SH,ST,PL	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5539	19-9DX,19-9-W-Mo	AISI 652	SH,ST	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5782	19-9DX,19-9-W-Mo	AISI 652	W	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5783	19-9DX,19-9-W-Mo	AISI 652	Weld.El.	K63199	US	2.Cr,Ni,Fe-Cr19.2,Fe/Bal66.7,Mo1.50,Ni9,Ti0.55,W1.2,Mn1
AMS 5526	19-9 DL	AISI 651	SH,ST,PL	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AMS 5527	19-9DL	AISI 651	SH,ST	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AMS 5579	19-9DL	AISI 651	Weld.T.	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AMS 5369	19-9DL	AISI 651	Casting	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
AISI 651	19-9DL	AISI 651	8A,FG,SH	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A453,Grade 651	19-9DL	AISI 651	8olting	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A457,Grade 651	19-9DL	AISI 651	SH,ST,PL	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A458,Grade 651	19-9DL	AISI 651	8A	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
ASTM A477,Grade 651	19-9DL	AISI 651	8I,FG	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Nb/Cb0.4,Ni9,Ti0.3,W1.2,Mn1
SAE J467(19-9DL)	19-9DL	AISI 651	—	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
AMS 5720	19-9DL	AISI 651	Bolts	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
AMS 5721	19-9DL	AISI 651	8A TO 1	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
AMS 5722	19-9DL	AISI 651	8A,FG,R	K63198	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
MIL-R-5031 Class 6	19-9WMO	AISI 652	ROD,WIRE	K63199	US	2.Cr,Ni,Fe-Cr19,Fe/Bal66.8,Mo1.25,Ni9,Nb/Cb0.4,Ti0.3,W1.2,Mn1
AMS 5742	Incoloy 801	—	8A,FG,R	N08801	US	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
AMS 5552	Incoloy 801	—	SH,ST,PL	N08801	US	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
ISC NO.10 Temp.Desig.	Incoloy 801	—	—	N08801	XX	2.Cr,Ni,Fe-Cr20.5,Fe44.5,Ni32,Ti1.13
AIR 9165-031	—	Z 6 CN 25	8A,FG,SH	—	FR	2.Cr,Ni,Fe-Cr25,Fe/Bal54.5,Ni20.5
AFNOR Z 6 CN 25	—	Z 6 Cn 25	8A,FG,SH	—	FR	2.Cr,Ni,Fe-Cr25,Fe/Bal54.5,Ni20.5

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
		Country	Public				
AMS 5784	29-9	—	—	W	K64299	US	2.Cr,Ni,Fe-Cr29,Cu0.25,Fe/Bal59.5,Mn1.5,Mo0.25,Ni9.5
AMS 5785	29-9	—	—	Weld.El.	K64299	US	2.Cr,Ni,Fe-Cr29,Cu0.25,Fe/Bal59.5,Mn1.5,Mo0.25,Ni9.5
AMS 5725	16-25-6	AISI 650	—	BA To1/1	—	US	2A.Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
AMS 5727	16-25-6	AISI 650	—	FG	—	US	2A.Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
AMS 5728	16-25-6	AISI 650	—	FG	—	US	2A.Cr,Ni,Fe,Mn-Cr16,Fe/Bal54.6,Mn7.5,Mo6,Ni25,N
ASTM A276,(XM-10)	21-6-9	—	—	BA,SHAPE	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A314,(XM-10)	21-6-9	—	—	BA,FG	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A412,(XM-10)	21-6-9	—	—	SH,ST,PL	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A429,(XM-10)	21-6-9	—	—	SEE A276	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A473,(XM-10)	21-6-9	—	—	FG	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5561	21-6-9	—	—	Weld.T.	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5595	21-6-9LC	—	—	SH,ST,PL	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AMS 5656	21-6-9LC	—	—	BA,FG,R	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A580,(XM-10)	21-6-9	—	—	W	S21900	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASME SA412(12904)	21-6-9LC	—	—	—	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A276(X-M11)	21-6-9LC	—	—	BA,SHAPE	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A314(X-M11)	21-6-9LC	—	—	BA,FG	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A412(X-M11)	21-6-9LC	—	—	SH,ST,PL	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A429(X-M11)	21-6-9LC	—	—	SEE A276	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A473(X-M11)	21-6-9LC	—	—	FG	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
ASTM A580(X-M11)	21-6-9LC	—	—	W	S21904	US	2A.Cr,Ni,Fe,Mn-Cr20.5,Fe/Bal63.5,Mn9,Ni6.5,N
AFNOR Z 10 NKC 30	—	—	—	—	—	FR	3.Cr,Ni,Co,Fe-Al0.8,Co20,Cr18,Fe/Bal29.2,Ni30,Ti2
DTD 5037	Nimonic PE 11	—	—	—	—	UK	3.Cr,Ni,Co,Fe-Al0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Z
Werkstoff 1.4911 LN	AECMA:Fe-PM 36	HR 56	—	BA,RD,FG	—	GY	3.Cr,Ni,Co,Fe-B,Co6.25,Cr10.6,Fe/Bal81,Mo0.8,Nb/Cb0.4,Ni0.7,N,V
AIR 9165-021	AECMA Fe-PH38	Z 10 CKD10	—	BA,FG	—	FR	3.Cr,Ni,Co,Fe-B,Co6,Cr10.5,Fe/Bal75,Mo7.5,Nb/Cb0.3,Ni0.5,V

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public		Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation	Designation or Standard				
Werkstoff 1.4914 LN	AECMA:Fe-PM 38	Z 10 CKD10	BA, RD, FG	—	—	GY	3. Cr, Ni, Co, Fe-B, Co6, Cr10.5, Fe/Bal81.4, Mo0.8, Nb/Cb0.3, Ni0.5, N, V
AFNOR Z 20 CKD 10	—	Z 20 CKD10	BA, FG	—	—	FR	3. Cr, Ni, Co, Fe-B0.005, Co6, Cr10.5, Fe/Bal75, Mo7.5, Nb/Cb0.3, Ni0.5, V
AECMA Fe-PM 38	—	Z 20 CK 10	BA, FG	—	—	FR	3. Cr, Ni, Co, Fe-B0.005, Co6, Cr10.5, Fe/Bal75, Mo7.5, Nb/Cb0.3, Ni0.5, V
AISI 690	Refractaloy 26	—	Wrought	—	—	US	3. Cr, Ni, Co, Fe-Co19, Cr18, Fe/Bal22.9, Mo3, Ni36, Ti2.6
AFNOR Z 6 NKCDT 38	Refractaloy 26	—	—	—	—	FR	3. Cr, Ni, Co, Fe-Co19, Cr18, Fe/Bal22.9, Mo3, Ni36, Ti2.6
AMS 5770	S-590	—	B, FG	R30590	—	US	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
AMS 5533	S-590	—	SH, ST	R30590	—	US	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
Werkstoff 1.4977 DIN	S-590	AMS 5533	Wrought	R30590	—	GY	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
Werkstoff 1.4978 DIN	S-590	AMS 5533	Wrought	R30590	—	GY	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
AFNOR Z 42, CKNDW 20	S-590	—	—	R30590	—	FR	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
AFNOR Z 42 CKNDNBW 20S-590	S-590	AMS 5533	—	R30590	—	FR	3. Cr, Ni, Co, Fe-Co20, Cr20.5, Fe/Bal25.4, Mn1.25, Mo4, Nb/Cb4, Ni20, W4
AIR 9165-051	N-155	Z12CNKDW20BA, FG, SH	—	R30155	—	FR	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AFNOR Z 12 CNK DW 20	N-155	Z12CNKDW20BA, FG, SH	—	R30155	—	FR	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5376	N-155	AISI 661	Cast.	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5531	N-155	AISI 661	SH	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5532	N-155	AISI 661	SH	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5585	N-155	AISI 661	Weld.T.	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5768	N-155	AISI 661	BA, FG, R	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5769	N-155	AISI 661	BA, FG, R	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5794	N-155	AISI 661	W	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AMS 5795	N-155	AISI 661	W	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
Werkstoff 1.4971 DIN	N-155	Fe-PA91-HT	Wrought	R30155	—	GY	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
Werkstoff 1.4974 LN	N-155	Fe-PA91-HT	BA, FG, SH	R30155	—	GY	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
AISI 661	N-155	—	—	R30155	—	US	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5
EN2168 (Draft Std.)	N-155, Fe PA 91HT	1.4974 LN	—	R30155	—	EU	3. Cr, Ni, Co, Fe-Co20, Cr21, Fe/Bal30.2, Mn1.5, Mo3, Nb/Cb1, Ni20, N, W2.5

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APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
EN2168 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2169 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2170 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2237 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2238 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2239 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AFNOR Z 12 CNKDW 20	N-155	Fe-PA92-HT	—	R30155	FR	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
AECMA Fe-PA 91-HT	N-155 Multimet	Z12CNKDW20Wrought	—	R30155	FR	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
MIL-R-5031 Class 9	N-155	AISI 661	ROD,WIRE	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
EN2167 (Draft Std.)	N-155,Fe PA 91HT	1.4974 LN	—	R30155	EU	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe/Bal30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
ANSI G81.40	Multimet N-155	N-155	—	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
ASTM A639,Grade 661	Multimet N-155	N-155	BA,FG	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
ASTM A567,Grade 661	Multimet N-155	N-155	Castings	R30155	US	3.Cr,Ni,Co,Fe-Co20,Cr21,Fe30.2,Mn1.5,Mo3,Nb/Cb1,Ni20,N,W2.5
G: ,SPAV-I-1570	—	—	—	—	UR	3.Cr,Ni,Co,Fe-Co39,Cr20,Fe/Bal0.5,Ni30,Ti4,W6.5
AWS A5.11-76	—	—	Weld.EI.	—	US	4.Ni-
AWS A5.14-76	—	—	Weld.EI.	—	US	4.Ni-
AWS A5.4-69	—	—	Weld.EI.	—	US	4.Ni-
AWS A5.9-69	—	—	Weld.EI.	—	US	4.Ni-
G: ,KhN75T	El435	—	Wrought	—	UR	4.Ni-AI0.15,Cr20.5,Fe3,Ni/Bal75,Ti0.25
4.Ni-AI0.15,Cr20.5,Fe	Ni/Bal75,Ti0.5	—	—	—	—	4.Ni-AI0.15,Cr20.5,Fe3,Ni/Bal75,Ti0.25
AMS 5701	Inconel 706	—	BA,FG,R	N09706	US	4.Ni-AI0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5702	Inconel 706	—	BA,FG,R	N09706	US	4.Ni-AI0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5703	Inconel 706	—	BA,FG,R	N09706	US	4.Ni-AI0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5605	Inconel 706	—	SH,ST,PL	N09706	US	4.Ni-AI0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75
AMS 5606	Inconel 706	—	SH,ST,PL	N09706	US	4.Ni-AI0.2,Co0.5,Cr16,Fe40,Mo0.5,Nb/Cb2.9,Ni41.5,Ti1.75

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
AMS 5599	Inconel 625	—	SH,ST,PL	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5666	Inconel 625	—	BA,FG,R	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5837	Inconel 625	—	Weld,W.	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ANSI H34.19	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ANSI H34.20	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ANSI H34.22	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SB443	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SB446	Inconel 625	—	—	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASTM B443	Inconel 625	—	SH,ST,PL	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASTM B444	Inconel 625	—	T,PI	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASTM B446	Inconel 625	—	BA,ROD	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
ASME SB444	Inconel 625	—	S.L.PI,T	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
Werkstoff 2.4856	Inconel 625	—	—	N06625	GY	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5666	Inconel 625	ASTM B443-	BA,FG,R	N06625	US	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AFNOR NC 22 FEDNB	Inconel 625	—	—	N06625	FR	4.Ni-A10.2,Cr21.5,Fe2.5,Mo9,Ni61,Ti0.2
AMS 5838	—	—	Weld,W.	—	US	4.Ni-A10.3,B,Co1,Cr15.7,Fe1.5,La0.05,Mo15.2,Ni/Bal65.8,W0.5
AMS 5873	—	—	SH,ST,PL	—	US	4.Ni-A10.3,B,Co1,Cr15.75,Cu0.17,Fe1.5,La,Mo15.25,Ni/Bal65,W1
AECMA Fe-PA 99-HT	Nimonic 901	Z8 NC DT42	—	—	FR	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7
RSABS MH.16	Nimonic 901	Incoloy901	—	N09901	SW	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
Werkstoff 2.4662 LN	Nimonic 901	Incoloy901	—	N09901	GY	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
BS HR 53	Nimonic 901	—	BI,BA,FG	—	UK	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
BS HR 404	Nimonic 901	—	Seaml.T.	—	UK	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
AMS 5660	Nimonic 901	Incoloy901	BA,FG	N09901	UK	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
AMS 5661	Nimonic 901	Incoloy901	BA,FG	N09901	US	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
ISO NO.17 Temp.Desig.	Nimonic 901	—	—	—	XX	4.Ni-A10.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
EN2176 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	EU	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
EN2177 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	EU	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
EN2178 (Draft Std.)	Nimonic 901	2.4662 LN	—	—	EU	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
DIN NiCr 15 MoTi	Nimonic 901	2.4662	—	—	GY	4.Ni-Al0.3,Cr12.5,Fe35,Mo5.7,Ni42.5,Ti2.9
AMS 5872	—	—	SH,ST,PL	—	US	4.Ni-Al0.4,Co20,Cr20,Fe0.35,Mo5.8,Ni/Bal51.5,Ti2.1
ANSI H34.21	IN-102	—	—	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,
ANSI H34.27	IN-102	—	—	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,
ANSI H34.28	IN-102	—	—	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,
ASTM B445	IN-102	—	T,PI	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,
ASTM B518	IN-102	—	ROD,BA	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3,
ASTM B519	IN-102	—	SH,ST,PL	N06102	US	4.Ni-Al0.5,B,Cr15,Fe7,Mg0.2,Mo2.9,Nb/Cb2.9,Ni/Bal67.8,Ti0.5,W3
AIR 9165-151	C-263,Nimonic263	NCK 20 D	BA,FG,SH	—	FR	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
AFNOR NCK 20D	C-263,Nimonic263	NCK 20 D	BA,FG,SH	—	FR	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
AECMA Ni-P 105 HT	C-263,Nimonic263	NCK 20 D	BA,FG,SH	—	FR	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
BS HR 10	Nimonic 263	—	BI,BA,FG	—	UK	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
BS HR 206	Nimonic 263	—	SH,ST,PL	—	UK	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
ISO NO.16 Temp.Desig.	Nimonic 263	—	—	—	XX	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
EN2199 (Draft Std.)	C-263,Nimon. 263	2.4650 LN	—	—	EU	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
EN2200 (Draft Std.)	C-263,Nimon. 263	2.4650 LN	—	—	EU	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
EN2201 (Draft Std.)	C-263,Nimon. 263	2.4650 LN	—	—	EU	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
EN2202 (Draft Std.)	C-263,Nimon. 263	2.4650 LN	—	—	EU	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
EN2203 (Draft Std.)	C-263,Nimon. 263	2.4650 LN	—	—	EU	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
Werkstoff 2.4650 LN	C-263	Nimon. 263	—	—	GY	4.Ni-Al0.5,Co20,Cr20,Mo5.9,Ni51,Ti2
AIR 9165-121	Inconel 718	NC 19 FENB	BA,FG,SH	N07718	FR	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AFNOR NC 19FE NB	Inconel 718	NC 19 FENB	BA,FG,SH	N07718	FR	4.Ni-Al0.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
RSABS MH.06	Inconel 718	Ni-P100-HT	—	N07718	SW	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
Werkstoff 2.4668LN	Inconel 718	NiCr19NbMo	Wrought	N07718	GY	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AECMA Ni-P 100-HT	Inconel 718	NC 19 FENB	—	N07718	FR	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5383	Inconel 718	—	Invest.C	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5589	Inconel 718	—	Seaml.T.	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5590	Inconel 718	—	Seaml.T.	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5596	Inconel 718	—	SH,ST,PL	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5597	Inconel 718	—	SH,ST,PL	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5662	Inconel 718	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5663	Inconel 718	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5664	Inconel 718	—	BA,FG,R	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
AMS 5832	Inconel 718	—	Weld.W.	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
ASTM A637 Grade 718	Inconel 718	—	BA,FG	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
ASTM A670	Inconel 718	—	SH,ST,PL	N07718	US	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
DIN NiCr 19 NBMo	Inconel 718	2.4665 LN	—	N07718	GY	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
ISO NO.7 Temp.Desig.	Inconel 718	—	—	N07718	XX	4.Ni-A10.5,Cr19,Fe18.5,Mo3.05,Nb/Cb5.13,Ni52.5,Ti0.9
G: ,Kh25N60V15	EI868	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
GOST: ,EI868	EI868,VZ90,VZ98,VZ99	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,VZh90	EI868	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,VZh98	EI868	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
G: ,Kh15N60V15	EI868	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe2,Ni/Bal57.5,Ti0.5,W14.5
GOST:5632-72,EI868	EI868	KHN60BT	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G:5632-72,KHN60VT	EI868	EI868	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G: ,Kh20N60V20	EI868	EI868	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G: ,KhN60V	—	—	Wrought	—	UR	4.Ni-A10.5,Cr25,Fe4,Ni/Bal55.5,Ti0.5,W14.5
G: ,Kh20N60TYu	—	—	Wrought	—	UR	4.Ni-A10.53,Cr19.47,Fe0.7,Ni/Bal42.7,Ti1.44,W14.5

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
G: ,Kh20N60TYu	—	—	Wrought	—	UR	4.Ni-A10.53,Cr19.47,Fe0.7,Ni/Bal42.7,Ti1.44,W14.5
G: ,12N	—	—	Wrought	—	UR	4.Ni-A10.53,Cr19.47,Fe0.7,Ni/Bal42.7,Ti1.44,W14.5
GOST:5632,72,EI602	EI602	KhN75MBTYu	Wrought	—	UR	4.Ni-A10.53,Cr20.5,Fe1.5,Mo1.95,Nb/Cb0.11,Ni/Bal75.3,Ti0.55
G:5632-72,KhN75MBTYu	EI602	EI602	Wrought	—	UR	4.Ni-A10.55,Cr20.5,Fe1.5,Mo1.95,Nb/Cb0.11,Ni/Bal75.3,Ti0.55
G: ,KhN80TYu	—	—	Wrought	—	UR	4.Ni-A10.6,Cr19.85,Ni/Bal78.4,Ti1.17
BS 3146	Nimocast 80	—	—	—	UK	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,KhN80T	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N80TYu	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N80YuT3	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
GOST: ,EI437A	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,KhN77TYu	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N77TYuR	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N77T3Yu	EI437ANimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N80T3B	Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
GOST: ,EI422	EI422,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
GOST: ,EI650	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N77T2Yu	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N80T3	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,Kh20N80T3Yu	EI650,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
GOST: ,EI437	EI437,Nimonic 80	—	Wrought	N07080	UR	4.Ni-A10.63,Cr21,Ni75,Ti2.45
G: ,KhN80T2Yu	—	—	Wrought	—	UR	4.Ni-A10.67,Cr19.7,Ni/Bal77.4,Ti2.23
GOST: ,EI437R	EI437R	—	Wrought	N07080	UR	4.Ni-A10.7,B,Cr18.5,Mo4.5,Ni/Bal69.3,Ti2.5,W4.5
AMS 5541	Inconel 722	—	SH,ST	N07722	US	4.Ni-A10.7,Cr15.1,Fe7,Ni75,Ti2.38
GOST: ,EI607A	EI607A,INC.X-750	—	Casting	—	UR	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni72.5,Ti2.3
RSABS MH. 04	Inconel X-750	—	—	N07750	SW	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country		Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent(c)
		Public	Country					
AFNOR NC 15 T NB A	Inconel X-750	—	—	—	—	N07750	FR	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5542	Inconel X-750	AISI 688	SH,ST,PL	SH,ST,PL		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5582	Inconel X-750	AISI 688	SeamI.T.	SeamI.T.		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5598	Inconel X-750	AISI 688	SH,ST,PL	SH,ST,PL		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5667	Inconel X-750	AISI 688	BA,FG,R	BA,FG,R		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5668	Inconel X-750	AISI 688	BA,FG,R	BA,FG,R		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5669	Inconel X-750	AISI 688	BA	BA		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5670	Inconel X-750	AISI 688	BA,FG,R	BA,FG,R		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5671	Inconel X-750	AISI 688	BA,FG,R	BA,FG,R		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5698	Inconel X-750	AISI 688	W	W		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5699	Inconel X-750	AISI 688	W	W		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5779	Inconel X-750	AISI 688	Weld.El.	Weld.El.		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5670	Inconel X-750	AISI 688	BA,FG,R	BA,FG,R		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 7246	Inconel X-750	AISI 688	Thread.W	Thread.W		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
ASME SA637	Inconel X-750	AISI 688	BA,FG	BA,FG		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
ASTM A637	Inconel X-750	AISI 688	BA,FG	BA,FG		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-N-7786	Inconel X-750	AISI 688	SH,ST	SH,ST		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-N-8550	Inconel X-750	AISI 688	—	—		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-N-24114	Inconel X-750	AISI 688	BA,ROD,F	BA,ROD,F		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-S-23192	Inconel X-750	AISI 688	—	—		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
MIL-S-21977	Inconel X-750	AISI 688	—	—		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AISI 688	Inconel X-750	—	—	—		N07750	US	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
GOST:5632-72,El607	El607,Incon.X-750	KhN80TB Yu	Wrought	Wrought		N07750	UR	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
G:5632-72,KhN80TB Yu	El607,Incon.X-750	El607	Wrought	Wrought		N07750	UR	4.Ni-A10.7,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
AMS 5714	Inconel 722	—	BA,FG,R	BA,FG,R		N07722	US	4.Ni-A10.7,Cr15.5,Fe7,Ni75,Ti2.38

APPENDIX A8. (Continued)

Public Standard or Specification Number	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms	Related UNS Number	Country Code	Nominal Composition, weight percent
GOST: ,EI444	EI444	—	Wrought	—	UR	4.Ni-AI0.7,Cr20,Mo4,Ni/Bal72.8,Ti2.5
ISO NO. 6 Temp.Desig.	Inconel X-750	—	—	N07750	XX	4.Ni-AI0.75,Cr15.5,Fe7,Nb/Cb0.95,Ni73,Ti2.5
GOST: ,EI607AL	EI607AL	—	Wrought	—	UR	4.Ni-AI0.75,Cr16,Fe3,Ni/Bal78.6,Ti1.6
GOST:5632-72,EI437B	EI437B	KhN77TYuR	Wrought	—	UR	4.Ni-AI0.8,B,Cr20.5,Fe2,Ni/Bal74.6,Ti2.05
G:5632-72,KhN77TYuR	EI437B	EI437B	Wrought	—	UR	4.Ni-AI0.8,B,Cr20.5,Fe2,Ni/Bal74.6,Ti2.05
GOST: ,EI437Bu	EI437Bu	—	Wrought	—	UR	4.Ni-AI0.8,B,Cr20.5,Ni/Bal76,Ti2.7
G: ,N2	N2 ,Inconel-X	—	Wrought	—	UR	4.Ni-AI0.8,B,Cr14.2,Fe7.2,Ni73.4,Ti2.5
AFNOR Z8 NC D38	Nimonic PE 11	—	—	—	FR	4.Ni-AI0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Zr0.005
DIN X8 NiCrMoTi 38 18	Nimonic PE 11	—	—	—	GY	4.Ni-AI0.85,B,Co1,Cr18,Fe/Bal32.8,Mo5.25,Ni39,Ti2.35,Zr0.005
GOST: ,EI873	EI873	—	Wrought	—	UR	4.Ni-AI0.88,Cr16.73,Ni/Bal80.5,Ti1.85
G: ,KhN72MTYu	—	—	Wrought	—	UR	4.Ni-AI1.17,Cr20,Fe0.7,Mo5.1,Ni/Bal7.0,Ti3
G: ,Kh27N72MTYu	—	—	Wrought	—	UR	4.Ni-AI1.17,Cr20,Fe0.7,Mo5.1,Ni/Bal70,Ti3
G: ,Kh18N67V5M5TYu	—	—	Wrought	—	UR	4.Ni-AI1.2,B,Ce0.1,Cr10.5,Mo4.5,Ni/Bal68.7,Ti2.5,W4.5
GOST: ,EI445R	EI445R	—	Wrought	—	UR	4.Ni-AI1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
G: Kh18N67V5T2YUR	EI445R	—	Wrought	—	UR	4.Ni-AI1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
G: Kh20N67V3T3YUR	EI445R	—	Wrought	—	UR	4.Ni-AI1.2,B,Cr18.5,Mo4.5,Ni/Bal68.8,Ti2.5,W4.5
AFNOR NW 11 AC	Nimonic PE 16	—	—	—	FR	4.Ni-AI1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
BS HR 11	Nimonic PE 16	—	BI,BA,FG	—	UK	4.Ni-AI1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
BS HR 207	Nimonic PE 16	—	SH,ST,PL	—	UK	4.Ni-AI1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
DTD 5047	Nimonic PE16	—	—	—	UK	4.Ni-AI1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
DIN X8 NiCrMoTiAL4316	Nimonic PE 16	—	—	—	GY	4.Ni-AI1.2,Cr16.5,Fe34,Mo3.3,Ni43.5,Ti1.2
GOST: ,EP691	EP691	—	Wrought	—	UR	4.Ni-AI1.2,Cr16,Fe8,Mo8,Ni/Bal62.3,W4.5
GOST: ,EP487	EP487	—	Wrought	—	UR	4.Ni-AI1.25,B,Ce0.01,Cr18.5,Fe4,Mo10,Ni/Bal59.3,Ti2.5,W4.5
G: ,KhN60VMTYu	EP487	—	Wrought	—	UR	4.Ni-AI1.25,B,Ce0.01,Cr18.5,Fe4,Mo10,Ni/Bal59.3,Ti2.5,W4.5
GOST:5632-72,EP202	EP202	KhN67MVTYu	Wrought	—	UR	4.Ni-AI1.25,B,Ce0.01,Cr18.5,Fe4,Mo10,Ni/Bal59.3,Ti2.5,W4.5

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
G:5632-72,KhN67MVTYu	EP202	EP202	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Fe4,Mo4.5,Ni/Bal65.8,Ti2.5,W4.5
G: ,KhN67VMTYu	EP202	—	Wrought	—	UR	4.Ni-Al1.25,B,Cd0.01,Cr18.5,Fe4,Mo4.5,Ni/Bal65.8,Ti2.5,W4.5
GOST: ,EP487	EP487	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18.5,Mo10,Ni/Bal63.2,Ti2.5,W4.5
GOST: ,EP677	EP677	—	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18,Fe9,Mo5.1,Ni/Bal61.2,W5.1
GOST:5632-72,EP590	EP590	KhN57MTVYu	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18,Fe9,Mo9.25,Ni/Bal58,Ti2.5,W2
G:5632-72,KhN57MVTYu	EP590	EP590	Wrought	—	UR	4.Ni-Al1.25,B,Ce0.01,Cr18,Fe9,Mo9.25,Ni/Bal58,Ti2.5,W2
GOST: ,EI869	EI869	—	Wrought	—	UR	4.Ni-Al1.25,B,Cr15.5,Fe3,Ni/Bal78.6,Ti1.7,Zr0.003
GOST: ,EI698	EI698	—	Wrought	—	UR	4.Ni-Al1.25,Cr14.5,Mo2.1,Ni/Bal79.8,Ti2.3
GOST: ,EP151	EP151	—	Wrought	—	UR	4.Ni-Al1.3,Cr16,Ni57.5
GOST:5632-72,EI598	EI598	KhN70MVTYu	Wrought	—	UR	4.Ni-Al1.35,B,Ce0.02,Cr17.5,Fe5,Mo5,Nb/Cb0.9,Ni/Bal65.2,Ti2.35,
G:5632-72,KhN70MVTYuB	EI598	EI598	Wrought	—	UR	4.Ni-Al1.35,B,Ce0.02,Cr17.5,Fe5,Mo5,Nb/Cb0.9,Ni/Bal65.2,Ti2.35,
G: ,Kh15N65V10M5T	EI893	—	Wrought	—	UR	4.Ni-Al1.35,B,Ce0.025,Cr16,Fe1.5,Mo4,Ni/Bal66.5,Ti1.4,W9.25
AMS 5715	Inconel 601	—	BA,FG,R	N06601	US	4.Ni-Al1.35,Cr23,Fe14.1,Ni60.5
AMS 5870	Inconel 601	—	SH,ST,PL	N06601	US	4.Ni-Al1.35,Cr23,Fe14.1,Ni60.5
ISO NO. 5 Temp.Desig.	Inconel 601	—	—	N06601	XX	4.Ni-Al1.35,Cr23,Fe14.1,Ni60.5
GOST:5632-72,EI893	EI893	KhN65VMTYu	Wrought	—	UR	4.Ni-Al1.4,B,Ce0.025,Cr16,Fe3,Mo4,Ni/Bal65,Ti1.4,W9.25
G:5632-72,KhN65VMTYu	EI893	EI893	Wrought	—	UR	4.Ni-Al1.4,B,Ce0.025,Cr16,Fe3,Mo4,Ni/Bal65,Ti1.4,W9.25
AMS 5708	Waspaloy	—	BA,FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5704	Waspaloy	—	FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5706	Waspaloy	—	FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5707	Waspaloy	—	FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5709	Waspaloy	—	BA,FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 7471	Waspaloy	—	Bolts,S	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5544	Waspaloy	—	SH,ST,PL	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5586	Waspaloy	—	Weld.T.	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
ASTM A637 Grade 685	Waspaloy	—	BA,FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
Werkstoff 2.4054	Waspaloy	—	—	N07001	GY	4.Ni

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Designation or Standard	Applicable Forms(b)	UNS Number	Country Code	Nominal Composition, weight percent (c)
		Country	Public					
ASTM A637 Grade 685	Waspaloy			AISI 685	BA,FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
Werkstoff 2.4054	Waspaloy			—	—	N07001	GY	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AIR 9165-111	Waspaloy,PK 50			NC 20 K 14	BA,FG,SH	N07001	FR	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AFNOR NC K 14	Waspaloy,PK 50			NC 20 K 14	BA,FG,SH	N07001	FR	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AECMA Ni-P 101 HT	Waspaloy,PK 50			NC 20 K 14	BA,FG,SH	N07001	FR	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5544, AISI 685	Nimonic PK 50			Waspaloy	SH,ST,PL	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5704, AISI 685	Nimonic PK 50			Waspaloy	FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5706, AISI 685	Nimonic Pk 50			Waspaloy	BA,FG,RI	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5707, AISI 685	Nimonic PK 50			Waspaloy	BA,FG,RI	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5709, AISI 685	Nimonic Pk 50			Waspaloy	BA,FG	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AMS 5828, AISI 685	Nimonic PK 50			Waspaloy	Weld.W.	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AISI 685	Waspaloy			Nim. PK 50	—	N07001	US	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
ISO NO.20 Temp.Desig.	Waspaloy			—	—	N07001	XX	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
EN2193 (Draft Std.)	Waspaloy			2.4654 LN	—	N07001	EU	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
EN2194 (Draft Std.)	Waspaloy			2.4654 LN	—	N07001	EU	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
EN2195 (Draft Std.)	Waspaloy			2.4654 LN	—	N07001	EU	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AFNOR NC 14 FEDT	Waspaloy			AMS 5544	—	N07001	FR	4.Ni-Al1.4,B,Co13.5,Cr19.5,Cu0.1,Fe2,Mo4.3,Ni/Bal55,Ti3,Zr
AIR 9165-101	Nimonic 80A			NC 20 TA	BA,FG,SH	N07080	FR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
AFNOR NC 20 TA	Nimonic 80A			NC 20 TA	BA,FG,SH	N07080	FR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
AECMA Ni-P 95 HT	Nimonic 80A			NC 20 TA	BA,FG,SH	N07080	FR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
RSABS MH. 07	Nimonic 80A			Ni-P95-HT	—	N07080	SW	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
Werkstoff 2.4631 LN	Nimonic 80A			NiCr20TiAl	BA,FG,SH	N07080	GY	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 1	Nimonic 80A			—	BI,BA,FG	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 201	Nimonic 80A			—	SH,ST,PL	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
BS 2HR 401	Nimonic 80A			—	SeamI.T.	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b) Number	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
BS HR 601	Nimonic 80A	—	BA,W	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
ASTM A637 Grade 80A	Nimonic 80A	—	BA,FG	N07080	US	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
Werkstoff 2.4952 DIN	Nimonic 80A	NiCr20TiAl	Wrought	N07080	GY	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
ISO NO.13 Temp.Desig.	Nimonic 80A	—	—	N07080	XX	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
DIN NiCr 20 TiAl	Nimonic 80A	2.4631 LN	—	N07080	GY	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
DTD 736 B	Nimonic 80A	2.4631 LN	—	N07080	UK	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
GOST: ,E1445	E1445,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
G: ,KhN67MTYu	E1445,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
G: Kh20N80T3A	E1437A,Nimonic 80	—	Wrought	N07080	UR	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.4
EN2188 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	EU	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.45
EN2189 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	EU	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.45
EN2190 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	EU	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.45
EN2191 (Draft Std.)	Nimonic 80A	2.4631 LN	—	N07080	EU	4.Ni-Al1.4,Cr19.5,Ni75,Ti2.45
Werkstoff 2.4976 DIN	AFNOR NC 20 DTA	NiCr 20 Mo	—	—	GY	4.Ni-Al1.4,Cr20,Fe1,Mo4.5,Ni/Bal70.7,Ti2.4
AFNOR NC 20 DTA	—	—	—	—	FR	4.Ni-Al1.4,Cr20,Fe1,Mo4.5,Ni/Bal70.7,Ti2.4
AMS 5712	RENE 41	AISI 683	BA,FG,R	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5713	RENE 41	AISI 683	BA,FG,R	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5800	RENE 41	AISI 683	Weld.W.	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 7469	RENE 41	AISI 683	Bolts,S.	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5399	RENE 41	AISI 683	Invest.C	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AMS 5545	RENE 41	AISI 683	SH,ST	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
Werkstoff 2.4973 DIN	AFNOR NC 20 KDTA	NiCr19CoMo	RENE 14	N07041	GY	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AISI 683	RENE 41	—	—	N07041	US	4.Ni-Al1.5,B,Co11,Cr19,Mo10,Ni/Bal45.3,Ti3.1
AFNOR NC 20KTA	Nimonic 90	Ni-P 96-HT	Wrought	—	FR	4.Ni-Al1.5,B,Co18,Cr19.5,Fe0.5,Ni/Bal58,Ti2.5
AIR 9165-161	Nimonic 90	NCK 20 TA	BA,FG,SH	N07090	FR	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AFNOR NCK 20 TA	Nimonic 90	NCK 20 TA	BA,FG,SH	N07090	FR	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
AECMA Ni-P 96 HT	Nimonic 90	NCK 20 TA	BA,FG,SH	N07090	FR	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
RSABS MH.10	Nimonic 90	Ni-P96-HT	—	N07090	SW	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
RSABS MH.45	Nimonic 90	—	—	N07090	SW	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
Werkstoff 2.4632 LN	Nimonic 90	NiCr20Co1B	BA,FG,SH	N07090	GY	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 2	Nimonic 90	—	BI,BA,FG	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 202	Nimonic 90	—	SH,ST	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS HR 402	Nimonic 90	—	Seaml.T.	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 502	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 501	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
BS 2HR 503	Nimonic 90	—	W	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
AMS 5829	Nimonic 90	—	Weld.W.	N07090	US	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
Werkstoff 2.4969 DIN	Nimonic 90	NiCr20Co1B	—	N07090	GY	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
ISO NO.14 Temp.Desig.	Nimonic 90	—	—	N07090	XX	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2295 (Draft Std.)	Nimonic 90	2.4632 LN	—	N07090	EU	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2296 (Draft Std.)	Nimonic 90	2.4632 LN	—	N07090	EU	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2297 (Draft Std.)	Nimonic 90	2.4632 LN	—	N07090	EU	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2298 (Draft Std.)	Nimonic 90	2.4632 LN	—	N07090	EU	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
EN2299 (Draft Std.)	Nimonic 90	2.4632 LN	—	N07090	EU	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
DIN NiCr 20 Co 19 Ti	Nimonic 90	2.4632 LN	—	N07090	GY	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
DTD 747 B	Nimonic 90	BS 2HR2	Wrought	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
DTD 5027	Nimonic 90	BS 2HR2	Wrought	N07090	UK	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
Werkstoff 2.4952 DIN	AFNOR NC 20 KDTANiCr20CoMo	—	—	—	GY	4.Ni-Al1.5,Co16.5,Cr19.5,Ni59,Ti2.5
GOST: ,EIB93L	EIB93L	—	Castings	—	UR	4.Ni-Al1.56,B,Ce0.02,Cr17.2,Mo3.61,Ni/Bal75.2,Ti1.54,W9
G: ,VZhL-14	—	—	Casting	—	UR	4.Ni-Al1.6,Cr19,Fe0.14,Mo5.4,Ni/Bal71.3,Ti2.7

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
GOST: ,EI765L	EI765L	—	Castings	—	UR	4.Ni-AI1.7,Cr14.5,Fe3,Mo19.5,Ni/Bal55.2,Ti1.15,W5
G: ,V56	EI6B	—	Casting	—	UR	4.Ni-AI1.8,Cr14,Fe7,Ni/Bal71.8,Si2,Ti1.49,W1.9
GOST: ,EI61B	EI61B,ZH53	—	Castings	—	UR	4.Ni-AI1.9,B,Ce0.01,Mo3.7,Ni/BalB6.7,Ti1.95,V0.3,W5.5
G: ,TsZh16	—	—	Wrought	—	UR	4.Ni-AI1.9,Cr19.5,Fe1.2,Mo3.25,Ni/Bal6B.9,W5.25
GOST: ,EI675	EI675	—	Wrought	—	UR	4.Ni-AI1.94,B,Cr14.5,Fe0.76,Mo4.2,Ni/Bal72.1,Ti1.3,W5.2
GOST:5632-72,EI765	EI765	KhN70VMY _u T	Wrought	—	UR	4.Ni-AI1.95,B,Cr15,Fe3,Mo4,Ni/Bal74.3,Ti1.2,W5
G:5632-72,KhN70VMY _u T	EI765	EI765	Wrought	—	UR	4.Ni-AI1.95,B,Cr15,Fe3,Mo4,Ni/Bal74.3,Ti1.2,W5
AMS 5756	M-252,J1500	AISI 689	BA,FG,R	N07252	US	4.Ni-AI1.8,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AMS 5551	M-252,J1500	AISI 689	SH,ST	N07252	US	4.Ni-AI1.8,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AMS 5757	M-252,J1500	AISI 689	BA,FG,R	N07252	US	4.Ni-AI1.8,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
ASTM A637 Grade 689	M-252,J1500	AISI 689	BA,FG	N07252	US	4.Ni-AI1.8,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
AISI 689	M-252,J1500	—	—	N07252	US	4.Ni-AI1.8,Co10,Cr19,Mo10,Ni/Bal56.2,Ti2.6
G: ,KhN60MBV _Y u	—	—	Wrought	—	UR	4.Ni-AI1,Cr14.5,Fe6.75,MoB,Ni/Bal64.2,W5.5
G: ,KhN50MBV _Y u	—	—	Wrought	—	UR	4.Ni-AI1,Cr15,FeB,Mo7.5,Ni/Bal63.7,W4.B
G: ,20-75BT _Y u	—	—	Wrought	—	UR	4.Ni-AI1,Cr20.6,Ni/Bal76.9,Ti1.5
G: ,7HS	,Bearing A.	—	Wrought	—	UR	4.Ni-AI2.3,Co4.8,Cr19,Mo2.5,Ni/Bal65,Ti2.9,W3.5
GOST:5632-72,EP199	EP199	KhN56VM _Y u	Wrought	—	UR	4.Ni-AI2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.2,Ti1.35,W10
G:5632-72,KhN56VM _Y T	EP199	EP199	Wrought	—	UR	4.Ni-AI2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.2,Ti1.35,W10
G: ,VZh101	EP199	EP199	Wrought	—	UR	4.Ni-AI2.35,B,Cr20.5,Fe4,Mo5,Ni/Bal56.2,Ti1.35,W10
GOST: ,EI607AB	EI607AB	—	Wrought	—	UR	4.Ni-AI2.45,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.2,Ti1.95,W6
GOST: ,EIB26	EIB26	—	Wrought	—	UR	4.Ni-AI2.45,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.2,Ti1.95,W6
AIR 9165-1B1	Udimet 710	NCK 1B TDA	BA,FG	—	FR	4.Ni-AI2.5,B,Co15,Cr18,Mo3,Ni/Bal54.2,Ti5,W1.5
AFNOR NCK 1B TDA	Udimet 710	NCK 1B TDA	BA,FG	—	FR	4.Ni-AI2.5,B,Co15,Cr18,Mo3,Ni/Bal54.2,Ti5,W1.5
GOST:5632-72,EIB26	EIB26	KhN70VM _Y u	Wrought	—	UR	4.Ni-AI2.65,B,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.7,Ti1.95,W6
G:5632-72,KhN70MT _Y uF	EIB26	EIB26	Wrought	—	UR	4.Ni-AI2.65,B,Ce0.02,Cr14.5,Fe5,Mo3.25,Ni/Bal66.7,Ti1.95,W6

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
Werkstoff 2.4666 LN	Nimonic PK25	—	—	—	GY	4.Ni-Al2.7,Co17.5,Cr18,Mo4,Ni54,Ti2.9
G: ,VZhL-1	—	—	Casting	—	UR	4.Ni-Al2.75,B,Cr16.5,Fe7,Mo3.3,Ni/Bal66.9,Ti1.4,W2.2
GOST: ,EI539	EP539	—	Wrought	—	UR	4.Ni-Al2.76,B,Ce0.015,Cr17,Mo3.3,Ni/Bal70.7,Ti2.76,W5.77
AIR 9165-141	Udimet 500	NCK 19 DAT BA,FG	N7500	N7500	FR	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AFNOR NCK 19 DAT	Udimet 500	NCK 19 DAT BA,FG	N7500	N7500	FR	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AECMA Ni-P 94 HT	Udimet 500	NCK 19 DAT BA,FG	N7500	N7500	FR	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5751	Udimet 500	AISI 684 BA,FG,R	N7500	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5384	Udimet 500	AISI 684 Invest.C	N7500	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AMS 5753	Udimet 500	AISI 684 BA,FG	N7500	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
ASTM A637 Grade 684	Udimet 500	AISI 684 BA,FG	N7500	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
ASTM A567 Grade 6V	Udimet 500	AISI 684 Castings	N7500	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
Werkstoff 2.4983 DIN	Udimet 500	Ni-P94-HT	—	N7500	GY	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AISI 684	Udimet 500	—	—	N7500	US	4.Ni-Al2.9,B,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AFNOR NC 20 KDTA	Udimet 500	—	—	N7500	FR	4.Ni-Al2.9,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
AFNOR NCK 18 DAT	Udimet 500	NL-P 94-HT	—	N06625	FR	4.Ni-Al2.9,Co18,Cr19,Fe4,Mo4,Ni/Bal47.2,Ti2.9
G: ,Kh15N70V6M3TYuEI617	EI617	—	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe2.5,Mo3,Ni/Bal70,Ti2.05,W6
GOST:5632-72,EI617	EI617	KhN70VMTYuWrought	—	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G:5632-72,KhN70VMTYu	EI617	EI617	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G: ,KhN70MVTYuB	EI617	EI 598	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
G: Kh15N70V6M3TYu	EI617	EI617	Wrought	—	UR	4.Ni-Al2,B,Ce0.02,Cr14.5,Fe5,Mo3,Ni/Bal65.1,Ti2.05,V0.3,W6
AFNOR NC 19 KDU/	Nimonic PK 33	—	—	—	FR	4.Ni-Al2,B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
DTD 5057	Nimonic PK 33	—	—	—	UK	4.Ni-Al2,B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
DIN NiCr Co 14 MoTiAl	Nimonic PK 33	—	—	—	GY	4.Ni-Al2,B,Co14,Cr18.5,Fe0.25,Mo7,Ni/Bal55.9,Ti2
G: ,VZh36-300	EI929,KhN55VMTFY	—	Wrought	—	UR	4.Ni-Al3.05,Co14,Cr10.5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5
G: ,VZh 36-300	EI929	—	Wrought	—	UR	4.Ni-Al3.05,Co14,Cr10.5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation		Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
	Public Standard	Designation					
G: ,KhN55VMTFKYuR	EI929	—	—	Wrought	—	UR	4.Ni-Al3.05,Co14,Cr10.5,Fe5,Fe5,Mo5,Ni/Bal55.2,Ti1.7,W5.5
GOST:5632-72,EI559A	EI559A	KhN60Yu	—	Wrought	—	UR	4.Ni-Al3.1,Ba0.1,Ce0.03,Cr16.5,Fe/Bal23.8,Ni56.5
G:5632-72,KhN60Yu	EI559A	EI559A	—	Wrought	—	UR	4.Ni-Al3.1,Ba0.1,Ce0.03,Cr16.5,Fe/Bal23.8,Ni56.5
GOST: ,EI894	EI894	—	—	Wrought	—	UR	4.Ni-Al3.1,Cr22.4,Fe9.7,Ni/Bal58,Ti1.1,W5.7
GOST: ,EI652	EI652	—	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe0.5,Ni/Bal68.9
G: ,OKH27N70Yu3	EI652	—	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe0.5,Ni/Bal68.9
GOST:5632-72,EI652	EI652	KhN70Yu	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe1,Ni/Bal68.1,V0.1
G:5632-72,KhN70Yu	EI652	EI652	—	Wrought	—	UR	4.Ni-Al3.15,Ba0.1,Ce0.03,Cr27.5,Fe1,Ni/Bal68.1,V0.1
G: ,Kh27N70Yu3	—	—	—	Wrought	—	UR	4.Ni-Al3.15,Ce0.03,Cr27.5,Fe1,Ni/Bal68.3
AMS 5550	Inconel 702	—	—	SH,ST	N07702	US	4.Ni-Al3.25,Cr15.5,Fe1,Ni79.5,Ti0.63
GOST: ,EI559	EI559	—	—	Wrought	—	UR	4.Ni-Al3.3,Ce0.3,Cr16.2,Fe19,Ni/Bal61.2
G: ,Kh16N60Yu3	EI559A	—	—	Wrought	—	UR	4.Ni-Al3.3,Ce0.3,Cr16.2,Fe19,Ni/Bal61.2
G: ,Kh15N74TYu3	—	—	—	Wrought	—	UR	4.Ni-Al3.3,Cr15.5,Fe5.8,Ni73.9,Ti1.46
G: ,VZh36L	—	—	—	Casting	—	UR	4.Ni-Al3.5,B,Ce0.01,Cr19,Fe1.5,Ni/Bal73.7,Ti2.3
Tu14-1-913-74 EP879	—	EP879	—	—	—	UR	4.Ni-Al3.B,Ce0.07,Co7.5,Cr8.5,Mo14,Nb/Cb4,Ni/Bal61.8,Ti1.2
AISI 686	GMR-235	—	—	—	—	US	4.Ni-Al3.B,Cr15.5,Fe10,Mo5.25,Ni/Bal63.19,Ti2
G: ,VZh17	—	—	—	Casting	—	UR	4.Ni-Al3.B,Cr15,Ni/Bal71,V1,W10
AFNOR NK 27 CADT	Inconel 700	—	—	—	—	FR	4.Ni-Al3,Co28.5,Cr15,Fe0.7,Mo3.75,Ni46,Ti2.2
GOST: ,EP99	EP99	—	—	Wrought	—	UR	4.Ni-Al3,Co7.5,Cr22.5,Mo4.2,Ni/Bal54.6,Ti1.25,W7
GOST:5632-72,EI929	EI929	KhN55VMTKYu	—	Wrought	—	UR	4.Ni-Al4.05,B,Co14,Cr10.5,Fe5,Mo5,Ni/Bal58.6,Ti1.7,V0.5,W5.2
G:5632-72,KhN55VMTKYu	EI929	EI929	—	Wrought	—	UR	4.Ni-Al4.05,B,Co14,Cr10.5,Fe5,Mo5,Ni/Bal58.6,Ti1.7,V0.5,W5.2
GOST: ,EP57	EP57	—	—	Wrought	—	UR	4.Ni-Al4.2,Co15,Cr10.5,Fe5,Mo5,Ni/Bal62.4,Ti2.4,W6,V0.5
GOST: ,EP220	EP220	—	—	Wrought	—	UR	4.Ni-Al4.2,Co15,Cr10,Mo5.6,Ni/Bal57,Ti2.4,V0.3,W5.5
AIR 9165-171	Udimet 700	NK 18 CDAT A,FG	—	—	—	FR	4.Ni-Al4.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5
AFNOR NK 18 CDAT	Udimet 700	NK 18 CDATBA,FG	—	—	—	FR	4.Ni-Al4.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AISI 687	Udimet 700	—	—	—	UR	4.Ni-A14.25,B,Co18.5,Cr15,Fe1,Mo5.2,Ni/Bal52.3,Ti3.5
GOST:5632-72,EI827	EI827	KhN75VMYy	Wrought	—	UR	4.Ni-A14.3,B,Ce0.01,Cr10,Fe5,Mo5.7,Ni/Bal69.3,VO.7,W5
G:5632-72,KhN75VMYy	EI827	EI827	Wrought	—	UR	4.Ni-A14.3,B,Ce0.01,Cr10,Fe5,Mo5.7,Ni/Bal69.3,VO.7,W5
G: ,TSZH12	—	—	Wrought	—	UR	4.Ni-A14.3,B,Co9.8,Cr10.8,Mo4.9,Ni/Bal62.7,V1.5,W6
GOST: ,EI661	EI661	—	Wrought	—	UR	4.Ni-A14.3,Ce0.01,Mo10.5,Ni/Bal80.2,W5
GOST: ,EI828	EI828	—	Wrought	—	UR	4.Ni-A14.35,B,Cr10,Fe4,Mo9,Ni/Bal67.7,W5
GOST:5632-72,EI867	EI867	KhN62M	Wrought	—	UR	4.Ni-A14.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
G:5632-72,KhN62MKYy	EI867	EI867	Wrought	—	UR	4.Ni-A14.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
G:5632-72,KhN62VMKYy	EI867	EI867	Wrought	—	UR	4.Ni-A14.55,B,Ce0.02,Co5,Cr9.5,Fe4,Mo10.25,Ni/Bal61.6,W5.1
GOST:5632-72,EP454	EP454	KhN55MVYy	Wrought	—	UR	4.Ni-A14.6,B,Ce0.01,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
G:5632-72,KhN55MVYy	EP454	EP454	Wrought	—	UR	4.Ni-A14.6,B,Ce0.1,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
G:5632-72,KhN55M6VYy	EP454	EP454	Wrought	—	UR	4.Ni-A14.6,B,Ce0.1,Cr10,Fe18.5,Mo5.75,Ni/Bal56.2,W5
AIR 9165-191	Nimonic 105	NK 20 CDA	BA,FG	—	FR	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AFNOR NK 20 CDA	Nimonic 105	NK 20 CDA	BA,FG	—	FR	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AECMA Ni-P 61 HT	Nimonic 105	NK 20 CDA	BA,FG	—	FR	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
RSABS MH.14	Nimonic 105	Ni-P61-HT	—	N09901	SW	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
Werkstoff 2.4634 LN	Nimonic 105	NiCoCr15	BA,SH,ST	—	GY	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
AFNOR NKCD 20 ATV	Nimonic 105	—	—	—	FR	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
BS HR 3	Nimonic 105	—	BI,BA,FG	—	UK	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
ISO NO.15 Temp.Desig.	Nimonic 105	—	—	—	XX	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2179 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2180 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
EN2181 (Draft Std.)	Nimonic 105	2.4634 LN	—	—	EU	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
DTD 5007 A	Nimonic 105	BS	Wrought	—	UK	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti1.2
DIN NiCo Cr 15 MoALTi	Nimonic 105	2.4634 LN	—	—	GY	4.Ni-A14.7,Co20,Cr15,Mo5,Ni53,Ti2

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
GOST: ,EI766A	EI766A	—	Wrought	—	UR	4. Ni-Al4, Cr10, Mo7.5, Ni/Bal69.4, Ti4.25, W4.9
AMS 5397	IN 100, PK 24	—	Invest.C	N13100	US	4. Ni-Al5.5, B, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr
AMS 5397	IN-100	Nimoc.PK24	Invest.C	N13100	US	4. Ni-Al5.5, B, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr
EN2233 (Draft Std.)	IN 100, NimocPK24	—	Castings	N13100	EU	4. Ni-Al5.5, B, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr
G: ,VZHL-12	,IN-100	—	Casting	N13100	UR	4. Ni-Al5.5, B, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V1, Zr
AFNOR NK 15 CAT	IN 100, PK 24	—	—	N13100	FR	4. Ni-Al5.5, Co15, Cr10, Mo3, Ni/Bal60.6, Ti4.7, V 1Zr
AECMA Ni-C 104-HT	IN 100, PK 24	NK 15 CAT	—	N13100	FR	4. Ni-Al5.5, Co15, Cr9.5, Mo3, Ni61, Ti4.7, V1
BS HC 204	IN 100, PK 24	—	Castings	N13100	UK	4. Ni-Al5.5, Co15, Cr9.5, Mo3, Ni61, W2.5
GOST:5632-72,EP109	EP109	KhN56VMKYu	Wrought	—	UR	4. Ni-Al5.8, B, Ce0.02, Co12, Cr9.5, Fe1.5, Mo7.3, Ni/Bal57.2, W6.7
G:5632-72, KhN56VMKYu	EP109	EP109	Wrought	—	UR	4. Ni-Al5.8, B, Ce0.02, Co12, Cr9.5, Fe1.5, Mo7.3, Ni/Bal57.2, W6.7
Werkstoff 2.4636 LN	Nimonic 115	Ni-P102-HT	—	—	GY	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
AECMA Ni-P 102-HT	Nimonic 115	NCK 15 ATD	—	—	FR	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
AFNOR NCK 15 ATD	Nimonic 115	—	—	—	FR	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
BS HR 4	Nimonic 115	—	BI,BA,FG	—	UK	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
DIN NiCo Cr 15 MoALTi	Nimonic 115	2.4636 LN	—	—	GY	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
DTD 5017 A	Nimonic 115	BS HR4	Wrought	—	UK	4. Ni-Al5, Co13.2, Cr14.2, Mo4, Ni59, Ti4
GOST: ,EP404	EP404	—	Wrought	—	UR	4. Ni-Al5, Cr10, Fe15, Mo9, Ni/Bal56, W5
G: ,KhN55M9VYu	EP404	—	Wrought	—	UR	4. Ni-Al5, Cr10, Fe18, Mo9, Ni/Bal56, W5
GOST: ,EI666A	EI66A	—	Wrought	—	UR	4. Ni-Al5, Cr17.5, Ni60, Ti2
G: ,L114	EI857	—	Casting	—	UR	4. Ni-Al6.1, Co8.5, Cr11.25, Mo3.5, Ni/Bal64.6, Ti2.6, W3.5
HC 201	—	—	Castings	—	UK	4. Ni-Al6, Cr11, Mo3, Nb/Cb2, Ni/Bal74.5, W3.5
RSABS MH.31	Nimocast 713	—	—	N07713	SW	4. Ni-Al6, Cr13.5, Mo4.5, Ni72, Ti0.9
Werkstoff 2.4670 LN	Nimocast 713	Alloy 713C	Cast	N07713	GY	4. Ni-Al6, Cr13.5, Mo4.5, Ni72, Ti0.9
AECMA Ni-C 98-HT	Nimocast 713	NC 13 AD	Castings	—	FR	4. Ni-Al6, Cr13.5, Mo4.5, Ni72, Ti0.9

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AFNOR NC 13 AD	Nimocast 713	—	Castings	—	FR	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
BS HC 203	Nimocast 713	—	Castings	—	UK	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5391	Nimocast 713	Alloy 713C	Invest.C	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5377	IN-713	Nimoca.713	Invest.C	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
AMS 5391	IN-713	Nimoca.713	Invest.C	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
ASTM A567	Inconel 713	—	Castings	N07713	US	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
EN2192 (Draft Std.)	Nimocast 713	—	Castings	—	EU	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
DIN G-NiCr13AL6Mo NB	Nimocast 713	2.4670 LN	—	—	GY	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
DIN G-NiCr13AL6MoNB	Nimocast 713	BS HC 203	Castings	—	GY	4.Ni-Al6,Cr13.5,Mo4.5,Ni72,Ti0.9
G: ,V27-45U	—	—	Casting	—	UR	4.Ni-B,Cr20,Fe25,Ni46,W8
GOST: ,EI766	EI766	—	Wrought	—	UR	4.Ni-Composition Possible Similar to EI827
ISO NO.18 Temp.Desig.	Hastelloy B2	—	—	N10655	XX	4.Ni-Co0.5,Cr0.5,Fe1,Mo28,Ni/Bal70
ISO NO.27	—	—	—	—	XX	4.Ni-Co1.5,Cr15.5,Fe8,Ni72
Werkstoff 2.4665 LN	Nimonic PE 13	HastelloyX	—	N06002	GY	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo0.9,Ni98,W0.6
RSABS MH.03	Nimonic PE 13	HastelloyX	—	N06002	SW	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
BS HR 6	Nimonic PE 13	—	BI,BA,FG	—	UK	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
BS HR 204	Nimonic PE 13	—	SH,ST,PL	—	UK	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
DIN NiCr 22 FE 18 Mo	Nimonic PE 13	2.4665 LN	—	—	GY	4.Ni-Co1.5,Cr21.5,Fe18.5,Mo9,Ni48,W0.6
Werkstoff 2.4613	Hastelloy X	Ni-P93-HT	BA,FG,SH	N06002	GY	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AIR 9165-131	Hastelloy X,PE13	NC 22 FED	BA,FG,SH	N06002	FR	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AFNOR NC 22 FED	Hastelloy X,PE13	Nim. PE13	BA,FG,SH	N06002	FR	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AECMA Ni-P 93 HT	Hastelloy X,PE13	NC 22 FED	BA,FG,SH	N06002	FR	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AMS 5754	Hastelloy X	AISI 680	BA,FG,R	N06002	US	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AMS 7237	Hastelloy X	AISI 680	Rivets	N06002	US	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AMS 5799	Hastelloy X	AISI 680	Weld.EI.	N06002	US	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6
AMS 5798	Hastelloy X	AISI 680	W	N06002	US	4.Ni-Co1.5,Cr22,Fe16.5,Mo9,Ni/Bal47.3,W0.6

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AMS 5588	Hastelloy X	AISI 680	Weld.T.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5587	Hastelloy X	AISI 680	Seaml.T.	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5536	Hastelloy X	AISI 680	SH,PL	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AMS 5390	Hastelloy X	AISI 680	Invest.C	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ANSI H34.15	Hastelloy X	—	—	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASME SB435	Hastelloy X	—	SH,PL	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM B435	Hastelloy X	—	SH,PL	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM A567	Hastelloy X	—	Castings	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM B366	Hastelloy X	—	Weld.Fit	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ASTM B572	Hastelloy X	—	ROD	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
Werkstoff 2.4972 DIN	Hastelloy X	Ni-P 93-HT	—	N06002	GY	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
AISI 680	Hastelloy X	—	—	N06002	US	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
ISO NO.19 Temp.Desig	Hastelloy X	—	—	N06002	XX	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2182 (Draft Std.)	Hastelloy X	2.4665 LN	—	N06002	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2183 (Draft Std.)	Hastelloy X	—	—	N06002	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2184 (Draft Std.)	Hastelloy X	—	—	N06002	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
EN2185 (Draft Std.)	Hastelloy X	—	—	N06002	EU	4.Ni-Co1.5,Cr22,Fe18.5,Mo9,Ni/Bal47.3,W0.6
BS 3146	Nimocast 242	—	—	—	UK	4.Ni-Co10,Cr22,Mo10,Ni57
AMS 5396	Hastelloy B	—	Invest.C	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI H34.11	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI H34.13	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI H34.15	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI G81.10	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ANSI G81.34	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASME SB333	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3

APPENDIX A8. (Continued)

Public Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
ASME SB335	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM B333	Hastelloy B	—	SH,PL	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM B335	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM B366	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni /Bal62,V0.3
ASTM A296	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM A494	Hastelloy B	—	Castings	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
Werkstoff 2.4600	Hastelloy B	—	—	N10001	US	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
Werkstoff 2.4482	Hastelloy B	—	—	N10001	GY	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ISO NO.23 Temp.Desig.	Hastelloy B	2.4600	—	N10001	GY	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
AFNOR ND 27 FEV	Hastelloy B	—	—	N10001	XX	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM B574	Hastelloy B	—	—	N10001	FR	4.Ni-Co2.5,Cr0.6,Fe5,Mo28,Ni/Bal62,V0.3
ASTM B575	Hastelloy C-276	—	ROD	N10276	US	4.Ni-Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4,V0.35,W3.75
ISO NO.24 Temp.Desig.	Hastelloy C-276	—	SH,ST,PL	N10276	US	4.Ni-Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4,V0.35,W3.75
AMS 5750	Hastelloy C	—	—	N10276	XX	4.Ni-Co2.5,Cr15.5,Fe5.5,Mo16,Ni/Bal55.4,V0.35,W3.75
AMS 5388	Hastelloy C	—	BA,FG,R	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5389	Hastelloy C	—	Invest.C	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AMS 5530	Hastelloy C	—	Sand C.	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI G81.10	Hastelloy C	—	SH,ST,PL	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI G81.34	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI G81.40	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI H34.14	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI H34.12	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ANSI H34.15	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SFA5.11	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SFA5.14	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
ASME SB334	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASME SB336	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A296	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A494	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM A567	Hastelloy C	—	Castings	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM B334	Hastelloy C	—	SH,PL	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM B336	Hastelloy C	—	ROD	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ASTM B365	Hastelloy C	—	Weld.Fit	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AWS A5.11	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AWS A5.14	Hastelloy C	—	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
Werkstoff 2.4537	Hastelloy C	2.4602	—	N10002	US	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
MIL-N-18088	Hastelloy C	AMS 5388	SH,PL	N10002	GY	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
AFNOR NC 17 DWY	Hastelloy C	—	—	N10002	FR	4.Ni-Co2.5,Cr16,Fe5,Mo17,Ni/Bal53.9,W4
ISO NO.25 Temp.Desig.	Hastelloy G	—	—	—	XX	4.Ni-Co2.5,Cr22.25,Cu2,Fe19.5,Mo6.5,Nb/Cb2,Ni/Bal46.5,W1
AMS 5755	Hastelloy W	—	BA,FG,R.	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
AMS 5786	Hastelloy W	—	Weld.W.	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
AMS 5787	Hastelloy W	—	Weld.El.	N10004	US	4.Ni-Co2.5,Cr5,Fe5.5,Mo24.5,Ni/Bal59.8,V0.6,Mn1,Si1
ISO NO.25 Temp.Desig.	Hastelloy C-4	—	—	—	XX	4.Ni-Co2,Cr16,Fe3,Mo15.5,Ni/Bal62.8,Ti0.7
HC 205	—	—	Castings	—	UK	4.Ni-Co20,Cr20,Mo6,Ni/Bal52,Ti2
HC 206	—	—	Precis C	—	UK	4.Ni-Co20,Cr20,Mo6,Ni/Bal52,Ti2
AFNOR Z6 NCKDW 45	RA 333	—	—	N06333	FR	4.Ni-Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.3,Si1.25,W3
AMS 5717	RA-333	—	BA,FG,R	N06333	US	4.Ni-Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5,Si1.25,W3
AMS 5393	RA-333	—	Castings	N06333	US	4.Ni-Co3,Cr25,Fe18,Mn1.5,Mo3,Ni/Bal45.5,Si1.25,W3
G: ,Kh15N65M16	EP567	—	Wrought	—	UR	4.Ni-Cr15.5,Fe1.5,Mo16,Ni/Bal63.2,W3.75
G: ,Kh15N65M16V	EP567	—	Wrought	—	UR	4.Ni-Cr15.5,Fe1.5,Mo16,Ni/Bal63.2,W3.75

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
GOST:5632-72,EP567	EP567	KhN65MV	Wrought	—	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
G:5632-72,KhN65MV	EP567	EP567	Wrought	—	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
G:5632-72,0Kh15N65M16	EP567	EP567	Wrought	—	UR	4.Ni-Cr15.5,Fe1,Mo16,Ni/Bal63.7,W3.75
G: ,N65M18Kh15V5L	Hastelloy C	—	Wrought	—	UR	4.Ni-Cr16,Fe4.5,Mo17.5,Ni60,W5
Werkstoff 2.4602	Hastelloy	—	—	N10002	GY	4.Ni-Cr16,Fe5,Mo17,Ni/Bal53.9,W4
G: ,0Kh21N78T	EI435	—	Wrought	—	UR	4.Ni-Cr19.25,Fe4,Ni75,Ti2.4
AIR 9165-091	Nimonic 75	NC 20 T	BA,FG,SH	—	FR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
AFNOR NC 20 T	Nimonic 75	NC 20 T	BA,FG,SH	—	FR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
AECMA Ni-P-91 HT	Nimonic 75	NC 20 T	BA,FG,SH	—	FR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
RSABS MH.05	Nimonic 75	Ni-P91-HT	—	—	SW	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
Werkstoff 2.4630 LN	Nimonic 75	NiCr 20 Ti	BA,FG,SH	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
BS HR 204	Nimonic 75	—	—	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
Werkstoff 2.491 DIN	Nimonic 75	NiCr 20 Ti	—	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
ISO NO.12 Temp.Desig.	Nimonic 75	—	—	—	XX	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2293 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2294 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2302 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2306 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2307 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
EN2308 (Draft Std.)	Nimonic 75	2.4630 LN	—	—	EU	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
DIN NiCr 20 Ti	Nimonic 75	2.4630 LN	—	—	GY	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
DTD 703 B	Nimonic 75	2.4630 LN	—	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
GOST:5632-72,EI435	EI435,Nimonic 75	KhN78T	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
G:5632-72,KhN78T	EI435,Nimonic 75	EI435	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti0.4
GOST: ,EI421	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms(b) Number	Related UNS	Country Code	Nominal Composition, weight percent (c)
G: ,Kh20N80T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G: ,KhN78T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G: ,KhN75T	EI421,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
GOST: ,EI435	EI435,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
G: ,Kh20N78T	EI435,Nimonic 75	—	Wrought	—	UR	4.Ni-Cr19.5,Fe4,Ni75,Ti2.4
BS HR 5	Nimonic 75	—	BI,BA,FG	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS HR 203	Nimonic 75	—	SH,ST,PL	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS HR 403	Nimonic 75	—	Seaml.T.	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
BS 2HR 504	Nimonic 75	—	BA,W,RiV	—	UK	4.Ni-Cr19.5,Fe4,Ni75,Ti2.45
AECMA Ni-C 103-HT	Nimocast PE 10	NC 20 NB	Castings	—	FR	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
AFNOR NC 20 NB	Nimocast PE 10	—	Castings	—	FR	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
BS HC 202	Nimocast PE 10	—	Castings	—	UK	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
HC 202	Nimocast PE10	—	Castings	—	UK	4.Ni-Cr20,Fe3,Mo6,Ni61,W2.5
AMS 5385	Stellite 21	HS-21	Invest.C	R30021	US	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
ANSI G81.40	Stellite 31	—	—	R30031	US	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
ASTM A567(2)	Stellite 31	—	Castings	R30031	US	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
Werkstoff 2.4966	X-40,ROSS ST31	BS ANC 13	Castings	R30031	GY	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
G: ,KHEYNES-31	Haynes 31,HS31	X-40	Wrought	R30605	UR	5.Co-B,Co/Bal52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5789	Stellite 31,HS31	X-40	Weld.W.	R30031	US	5.Co-B,Co52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5382	Stellite 31,HS31	X-40	Invest.C	R30031	US	5.Co-B,Co52.5,Cr25.5,Fe2,Ni10.5,W7.5
AMS 5378	Stellite 27	HS-27	Invest.C	R30027	US	5.Co-Co/Bal35.2,Cr25,Fe1,Mo5.5,Ni32
AIR 9165-211	Haynes Alloy 188	KC N 22 W	BA,SH	R30188	FR	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AFNOR KC N 22 W	Haynes Alloy 188	KC N 22 W	BA,SH	R30188	FR	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5608	Haynes Alloy 188	HS 188	SH,ST,PL	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5772	Haynes Alloy 188	MS188	BA,FG,R	R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14

APPENDIX A8. (Continued)

Public Standard or Specification Number (a)	International Common Name or Designation	Alternate Country Public		Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
		Designation or Standard	Designation or Standard				
AMS 5608	Haynes Alloy 188	HS188	SH,ST,PL		R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
AMS 5801	Haynes Alloy 188	HS188	Weld.W.		R30188	US	5.Co-Co/Bal39.2,Cr22,Fe1.5,La,Ni22,W14
Werkstoff 2.4967 DIN	L-605,WF-11,HS25	2.4964 LN	—		R30605	GY	5.Co-Co/Bal42.3,Cr25,Fe3,Mn1,Mn4,Nb/Cb2,Ni20,W2
Werkstoff 2.4964 LN	L-605,WF-11,HS25	Co-P 92-HT	—		R30605	GY	5.Co-Co/Bal42.3,Cr25,Fe3,Mn1,Mn4,Nb/Cb2,Ni20,W2
AMS 5534	S-816	AISI 671	SH,ST		R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
AMS 5765	S-816	AISI 671	BA,BI,FG		R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
ASTM A639,Grade 671	S-816	AISI 671	BA,FG		R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
Werkstoff 2.489 DIN	S-816	CoCr20Ni20	—		R30816	GY	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
AISI 671	S-816	—	—		R30816	US	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
AFNOR KCN 20 DNBW	S-816	Co-P92-HT	—		R30816	FR	5.Co-Co/Bal42,Cr20,Fe4,Mn1.2,Mn4,Nb/Cb4,Ni20,W4
AMS 5380	Stellite 30	HS-30	Invest.C		R30030	US	5.Co-Co/Bal50.3,Cr26,Fe1,Mn6,Ni15
EN2161 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—		R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2162 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—		R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2164 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—		R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2165 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—		R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
EN2166 (Draft Std.)	L605,WF-11,HS-25	2.4964 LN	—		R30605	EU	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AIR 9165-201	HS-25,L605,WF-11	KC 20 WN	BA,FG,SH		R30605	FR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AFNOR KC 20 WN	HS-25,L605,WF-11	KC 20 WN	BA,FG,SH		R30605	FR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AECMA Co-P 92 HT	HS-25,L605,WF-11	KC 20 WN	BA,FG,SH		R30605	FR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AMS 5759	L605,WF-11,HS-25	AISI 670	BA,FG,R		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AMS 5796	L605,WF-11,HS-25	AISI 670	W		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AMS 7236	L605,WF-11,HS-25	AISI 670	Rivets		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AMS 5797	L605,WF-11,HS-25	AISI 670	Weld.El.		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
AMS 5537	L605,WF-11,HS-25	AISI 670	SH		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5
ASTM E90	L-605,WF-11,HS25	—	Surg.IMP		R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W1.5

APPENDIX A8. (Continued)

Public Standard or Specification Number(a)	International Common Name or Designation	Alternate Country Public Designation or Standard	Applicable Forms (b)	Related UNS Number	Country Code	Nominal Composition, weight percent (c)
AISI 670	L605,WF-11,HS-25	—	—	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
G: ,KhEYNES-25	Haynes 25,L-605	WF-11	Wrought	—	UR	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
MIL-R-5031 Class 13	L-605,WF11,HS-25	AISI 670	ROD,WIRE	R30605	US	5.Co-Co/Bal52.9,Cr20,Mn1.5,Ni10,W15
HR 40	—	—	BI,BA,FG	—	UK	5.Co-Co/Bal53.5,Cr20,Mn1.5,Ni10,W15
ANSI G81.40	Stellite 21	—	—	R30021	US	5.Co-Co/Bal62,Cr27,Fe1,Mo5,Ni13
ASTM A567 (1)	Stellite 21	—	—	R30021	US	5.Co-Co/Bal62,Cr27,Fe1,Mo5,Ni13
Werkstoff 2.4979	Stellite 21	—	—	R30021	GY	5.Co-Co/Bal62,Cr27,Fe1,Mo5,Ni13
AMS 5375	Stellite 23	HS 23	Invest.C	R30023	US	5.Co-Co/Bal66.1,Cr24,Fe1,Mo5,Ni12
MIL-R-17131	Stellite 6	—	ROD,POWD	—	US	5.Co-Co/Bal68,Cr26,W5
G: ,KhEYNES1049	—	—	Wrought	—	UR	5.Co-Co45,Cr26,Ni10,W15
GOST: ,E1926	E1926	—	Wrought	—	UR	6.Composition Unknown
JIS G4901	—	—	BA	—	JA	6.No Composition Reported.
JIS G4902	—	—	SH,PL	—	JA	6.No Composition Reported.
JIS G4903	—	—	BeamI.P.	—	JA	6.No Composition Reported.
JIS G4904	—	—	Heat.Ext	—	JA	6.No Composition Reported.
2HR 100	Inspect. Proced.	—	—	—	UK	6.No Composition Reported, Inspection Procedures.
HC 100	Inspect. Proced.	—	Castings	—	UK	6.No Composition, Inspection Procedure.

FOOTNOTES (a)

AECMA	Association Europeene Des Constructeurs De Material Aerospatial (Formerly AICMA).
AFNOR	Association Francaise De Normalization.
AIR	Ministere Des Armees, Repertoire Des Reglements AIR.
AMS	Aerospace Material Specification (By SAE).
ANSI	American National Standards Institute.
ASME	American Society Of Mechanical Engineers.
ASTM	American Society For Testing And Materials.
AWS	American Welding Society.
BS	British Standard Specifications.
DTD	British Ministry Of Defence.

APPENDIX A8. (Continued)

DTD	British Ministry Of Defence.
DIN	German Standard Specification (Per DIN 17006).
EN	Deutscher Normenausschluss.
GOST:	Euronorm (European Economic Community).
G:	USSR State Standards Committee Specifications.
ISD	USSR State Standards Committee Specifications.
JIS	International Organization For Standardization.
MIL	Japanese Standards Institute.
PW	US Military Specifications.
RR	Pratt-Whitney Aircraft Co.
RSABS	Rolls Royce Ltd.
SAE	Royal Swedish Air Board Specifications. Also called
SEW	Swedish Defence Material Administration.
UNS	Society Of Automotive Engineers.
VDTU	Blattar-Stahl Und Eisen Werkstoffblatt.
WERKSTOFF LN	Unified Numbering System For Metals And Alloys — (SAE/ASTM).
WERKSTOFF DIN	German Association For Technical Supervision.
CSN	German Aeronautical Material Numbers (Leistungsblatt).
TU	German Material Numbers.
AMTU	Czechoslovakian Standard Numbers.
	Soviet Technical Specifications.
	Soviet Aviation Metallurgical Specifications.

APPENDIX A8. (Continued)

BA	Bar
BI	Billets
Bolts,S.	Bolts, Screws
Cast.	Castings
FG	Forgings
H.Exch.T.	Heat Exchanger Tubing
Invest.C.	Investment Castings
Inspect. Proced.	Inspection Procedures
Powd.	Powder
Precis.C.	Precision Castings
Seaml.P.	Seamless Pipe
S.L.Pl.	Seamless Pipe
Seaml.T.	Seamless Tubing
SH	Sheet
ST	Strip
T	Tubing
Thread.W.	Wire Thread Inserts
R	Rods
W	Wire
Weld.El.	Welding Electrodes
Weld.Fit.	Welding Fittings
Weld.T.	Welded Tubing
Weld.W.	Welding Wire
RIV	Rivets
Surg.Imp.	Surgical Implants

APPENDIX A8. (Continued)

(c)

1.Ferritic(Mart.)SS	Ferritic (Martensitic) Stainless Steel
1A.Ferritic(Age-Hardenable)SS	Ferritic (Age-Hardenable) Stainless Steel
2.Cr,Ni,Fe	Chromium, Nickel, Iron, Manganese Alloy
2A.Cr,Ni,Fe,Mn	Chromium, Nickel, Iron, Manganese Alloy
3.Cr,Ni,Co,Fe	Chromium, Nickel, Cobalt, Iron Alloy
4.Ni	Nickel-Base Alloy
5.Co	Cobalt-Base Alloy

INDEX 1 (Alphanumeric)

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Adnic 240 D.T	516	AFNOR NC 20 N13	1693	AISI 653	326
Adnic 265D	1617	AFNOR NC 21 FE DU	67	AISI 660	81
AECMA Co-C 91-HT	1854	AFNOR NC 22 FE D	1532	AISI 662	299
AECMA CO-P 92-HT	1827	AFNOR NC 22 FE D NB	677	AISI 663	134
AECMA FE-PA 91-HT	583	AFNOR NCK 18 TDA	1145	AISI 664	220
AECMA FE-PA 92-HT	104	AFNOR NCK 20 D	734,743	AISI 665	238
AECMA FE-PA 92-HT	109	AFNOR ND 27 FE V	1569	AISI 670	1823
AECMA FE-PA 93-HT	305	AFNOR NK 15 CAT (Cast)	1383	AISI 671	1782
AECMA FE-PA 99-HT	705	AFNOR NK 18 CDAT	1287	AISI 680	1513
AECMA FE-PM36,1.4914L	260	AFNOR NK 20 CDAT	1352	AISI 682	699
AECMA FE-PM37,1.4939L	288	AFNOR NK 20 CADT	1264	AISI 683	1049
AECMA FE-PM38,1.4911L	461	AFNOR NKCD 20 ATV	1331	AISI 684	1165
AECMA NI-C 98-HT	1427	AFNOR Z 3 NCT 25	303	AISI 685	938
AECMA NI-C 103-HT (C)	856	AFNOR Z 4 NCDT 26	304	AISI 686	1260
AECMA NI-P 61-HT	1329	AFNOR Z 5 NCTD V 25	160	AISI 687	1299
AECMA NI-P 91-HT	1645,1649	AFNOR Z 6 NCKDW 45	1610	AISI 688	839
AECMA NI-P 93-HT	1534	AFNOR Z 6 NCT 25	107	AISI 689	1121
AECMA NI-P 94-HT	1172	AFNOR Z 6 NKCDT 38	543	AISI 690	541
AECMA NI-P 95-HT	1021	AFNOR Z 8 NC DT42	707	Alacrite X.S.H	1833
AECMA NI-P 96-HT	1063,1073	AFNOR Z 8 NC D38	500	Alleghehy A-286	98
AECMA NI-P 100-HT	772	AFNOR Z 12 CNKDW 20	612	Alleghehy AF-71*	471
AECMA NI-P 101-HT	945	AFNOR 25 NC 35 20	180	Alleghehy AF-183*	475
AECMA NI-P 102-HT	1416	AIR 9165-011	262	Alleghehy D-979	227
AECMA NI-P 105-HT	745	AIR 9165-021	512	Alleghehy Ludlum 901	147
AF-2 1D	1319	AIR 9165-031	453	Alleghehy M-252	1128
AF-2-1DA	1317	AIR 9165-041	363	Alleghehy Metal S-590	554
AF-71*	472	AIR 9165-051	598	Alleghehy Metal S-816	1776
AF-94*	1923	AIR 9165-061	306	Alleghehy N-155	587
AF-183*	474	AIR 9165-071	111	Alleghehy R 41	1036
AF-77	49	AIR 9165-081	149	Alleghehy S-816 B (C)	1723
AFNOR E-Z 6 NCT 25	103	AIR 9165-091	1650	Alleghehy V 36	1771
AFNOR K-C20WN	1859	AIR 9165-101	989	Alleghehy 19-9DL	403
AFNOR K-C22WTA (Cast)	1885	AIR 9165-111	969	Alleghehy 19-9DX	380
AFNOR K-C25NW (Cast)	1884	AIR 9165-121	767	Alleghehy 418 Special	12
AFNOR KC 20 WN	1826	AIR 9165-131	1536	Alloy CSA-39	421
AFNOR N-CK15ATD	1405	AIR 9165-141	1173	Alloy L-605	1811
AFNOR N-CK20DAT	1251	AIR 9165-151	714	Alloy M-252, AISI 689	1118
AFNOR N-C13AD (Cast)	1455	AIR 9165-161	1053	Alloy M-308*	139
AFNOR NC 13 AD	1158	AIR 9165-171	1290	Alloy MC-102	1603
AFNOR NC 15 T NB A	1426	AIR 9165-181	1143	Alloy N-155	588
AFNOR NC 15FET(NB)	853	AIR 9165-191	1325	Alloy 19-9 WMO	419
AFNOR NC 17 DWY	1593	AIR 9165-201	1836	Alloy 19-9DL	398
AFNOR NC 19 FE NB	770	AIR 9165-211	1763	Alloy 42-C	621
AFNOR NC 19 KDU/V	1189	AiResist 13 (Cast)	1715	Alloy 61	1890
AFNOR NC 20 KDTA	1170	AiResist 213 (Cast)	1716	Alloy 422-19	1804
AFNOR NC 20 KTA	1071	AiResist 215 (Cast)	1717	Alloy 713C (W) (Cast)	1433
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Alivac Astroloy	1351	AMS 5533	551	AMS 5707, AISI 685	963
Alivac-I-700	1269	AMS 5534, AISI 671	1779	AMS 5708, AISI 685	964
Alivac M-252	1127	AMS 5536, AISI 680	1517	AMS 5709, AISI 685	965
Alivac Rene 41	1038	AMS 5537, AISI 670	1818	AMS 5712, AISI 683	1046
Alivac Waspaloy	952	AMS 5538, AISI 652	385	AMS 5713, AISI 683	1051
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Alivac 80A	991	AMS 5542	829	AMS 5717	1613
Alivac 90	1075	AMS 5543	236	AMS 5720, AISI 651	412
Alivac 105	1326	AMS 5544	959	AMS 5721, AISI 651	413
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Alivac 500 ZB	1160	AMS 5550	1210	AMS 5723	387
Alivac 520	1185	AMS 5551, AISI 689	1122	AMS 5724	388
Alivac 718	755	AMS 5552	427	AMS 5725	350
Almenit 4981	344	AMS 5579, AISI 651	406	AMS 5727	351,352
Almenit 4989	1789	AMS 5582, AISI 688	830	AMS 5729, AISI 652	389
Almenit 4989 (W) (C)	1785	AMS 5585	576	AMS 5731, Consum. Melt	84
Altemp A-286	72	AMS 5586, AISI 685	960	AMS 5732, Consum. Melt	85
Altemp D-979	223	AMS 5587, AISI 680	1518	AMS 5733	298
Altemp M-252	1129	AMS 5588, AISI 680	1519	AMS 5734, Consum. Melt	86
Altemp S-590	555	AMS 5589	758	AMS 5735, Consum. Melt	87
Altemp S-816	1777	AMS 5590	759	AMS 5736, Consum. Melt	88
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AM 355, AISI 634 (Wrt.)	44	AMS 5599	686	AMS 5748	50
AMS 5354 (Cast)	41	AMS 5605	663	AMS 5750	1582
AMS 5375 (Cast)	1887	AMS 5606	664	AMS 5751, AISI 684	1163
AMS 5376	573	AMS 5608	1765	AMS 5753, AISI 684	1164
AMS 5378 (Cast)	1760	AMS 5616, AISI 615	40	AMS 5754, AISI 680	1520
AMS 5380 (Cast)	1398,1799	AMS 5633	216	AMS 5756, AISI 689	1123
AMS 5382 (Cast)	1729,1735	AMS 5634	217	AMS 5757, AISI 689	1124
AMS 5383 (Cast)	757	AMS 5660, Con/Vac. Melt	145	AMS 5759, AISI 670	1825
AMS 5384 (Cast)	1162	AMS 5661, Con/Vac. Melt	146	AMS 5765, AISI 671	1780
AMS 5385 (Cast)	1871	AMS 5662	762	AMS 5766	167
AMS 5388 (Cast)	1579	AMS 5663	763	AMS 5768	577
AMS 5389 (Cast)	1580	AMS 5664	764	AMS 5769	578
AMS 5390 (Cast)	1516	AMS 5666	687	AMS 5770	552
AMS 5391 (Cast)	1434	AMS 5667	854	AMS 5772	1766
AMS 5396 (Cast)	1556	AMS 5668, AISI 688	832	AMS 5778	849,855
AMS 5397 (Cast)	1374	AMS 5669, AISI 688	833	AMS 5782, AISI 652	390
AMS 5399, AISI 683 (C)	1044	AMS 5670, AISI 688	834	AMS 5783, AISI 652	391
AMS 5508	37	AMS 5671, AISI 688	835	AMS 5794	579
AMS 5509, Con/Vac. Melt	224	AMS 5698, AISI 688	836	AMS 5795	580
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AMS 5804	90	ASME SB163	61,176	ASTM B 435	1525
AMS 5805, Vac. Melt	91	ASME SB333	1557	ASTM B 436	248
AMS 5817	38	ASME SB335	1558	ASTM B 443	689
AMS 5828, AISI 685	966	ASME SB407	177	ASTM B 444	690
AMS 5832	765	ASME SB409	178	ASTM B 445	725
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AMS 7237, AISI 680	1523	ASME SB436	249	ASTM B 564	175
AMS 7469, AISI 683	1048	ASME SB443	692	ASTM B 572	1528
AMS 7471, AISI 685	967	ASME SB444	693	ASTM B 574	1573
ANC 10 (Cast)	1094	ASME SB446	694	ASTM B 575	1574
ANC 11 (Cast)	655	ASR1	537	ASTM F-75 (Cast)	1872
ANC 16 (Cast)	1629	ASR2	515	ASTM F 90, AISI 670	1822
ANSI G81.10 (Hast. B)	1564	ASTM A 296, Grade, CW-12M	1583	Astrolloy	1350
ANSI G81.10 (Hast. C)	1595	ASTM A 296, Grade, N-12M	1554	ATG B	525
ANSI G81.34 (Hast. B)	1565	ASTM A-453, Grade 662	300	ATG CI	769
ANSI G81.34 (Hast. C)	1596	ASTM A-453, Grade 660	82	ATG F	844
ANSI G81.40 (Hast. C)	1597	ASTM A 461	1166	ATG M	435
ANSI G81.40 (HS-21)	1878	ASTM A 494, Grade N-12M-	1555	ATG M2	1382
ANSI G81.40 (HS-31) (C)	1742	ASTM A 494, Grade CW12M-1	1584	ATG R	1646
ANSI G81.40 (N-155)	570	ASTM A 567, Grade 2 (C)	1730	ATG S3	987,1018
ANSI H34.11 (Hast. B)	1561	ASTM A 567, Grade 3, 661	582	ATG S4	1070
ANSI H34.12 (Hast. C)	1599	ASTM A 567, Grade 4	1585	ATG S8	1263
ANSI H34.13 (Hast. B)	1562	ASTM A 567, Grade 5, (680)	1526	ATG S9	1425
ANSI H34.14 (Hast. C)	1598	ASTM A 637, Grade 80A	983	ATG W0	742
ANSI H34.15 (Hast. F)	250	ASTM A 637, Grade 684	1167	ATG W1	942
ANSI H34.15 (Hast. X)	1538	ASTM A 637, Grade 685	939	ATG W2	1169
ANSI H34.15 (Inc. 800)	186	ASTM A 637, Grade 688	838	ATG W3	1286
ANSI H34.15 (Hast. B)	1563	ASTM A 637, Grade 689	1125	ATG W4	1144
ANSI H34.15 (Hast. C)	1600	ASTM A-638, Grade 680	93	ATG X	611
ANSI H34.15 (Hast. N)	696	ASTM A-638, Grade 662	301	ATG XX	556
ANSI H34.19 (Inc. 625)	679	ASTM A 639, Grade 661	581	ATG 33	1609
ANSI H34.20 (Inc. 625)	680	ASTM A 639, Grade 671	1722,1781	ATGS 65	1324
ANSI H34.21 (IN-102)	717	ASTM B 163	60,169	ATS	358
ANSI H34.23 (Inc. 800)	190	ASTM B 333	1559	ATS 105-G (Cast)	569
ANSI H34.24 (Inc. 800)	191	ASTM B 334	1586	ATS 113-G (Cast)	1794
ANSI H34.27 (IN-102)	718	ASTM B 335	1552	ATS 114-G (Cast)	1806
ANSI H34.28 (IN-102)	719	ASTM B 336	1587	ATS 114-G SO.1 (Cast)	1727
ANSI H34.39 (Inc. 800)	187	ASTM B 366	1588	ATS 17-G (Cast)	441
ANSI H34.40 (Inc. 800)	189	ASTM B 366, Grade WPNIC	170	ATS 2	330
ANSI H34.41 (Inc. 800)	188	ASTM B 366, Grade WPHB	1553	ATS 200-G (Cast)	670
ANSI H34.42 (Inc. 800)	185	ASTM B 366, Grade WPHX	1527	ATS 241-G (Cast)	891
ANTINIT 1525	122	ASTM B-407	198	ATS 270	776
ANV-300 (Cast)	1408	ASTM B 408	171	ATS 281-G (Cast)	1392
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ATS 340-G (Cast)	894	BS HR 11	212	BS 3146/3 VMA 9 (Cast)	1168,1252
ATS 361-G (Cast)	1176	BS HR 40	1847	BS 3146/3 VMA 10 (C)	1285,1306
ATS 381-G (Cast)	1380	BS HR 51	114	BS 3146/3 VMA 11 (C)	1301
ATS 385 LC-G (Cast)	1241	BS HR 52	115	BS 3146/3 VMA 12 (C)	1375,1381
ATS 391-G (Cast)	1372	BS HR 53	703	BS 3146/3 VMA 13 (C)	780,795
ATS-G (Cast)	346	BS HR 201	999	BS 3146/3 VMA 14 (C)	1365
ATS-6	364	BS HR 203	1675	BS 3146/3 VMA 15 (C)	1363,1403
ATS-15	332	BS HR 204	1504	BS 3146/3 VMA 16A (C)	1215
ATS-26	331	BS HR 206	733	BS 3146/3 VMA 16B (C)	1216,1224
ATS-101	531	BS HR 240	1846	BS 3146, Part 2 (Cast)	1926
ATS-103	562	BS HR 251	314	BS 3146, Part 3 (Cast)	1492
ATS-105	538	BS HR 402	1079	BS 3531, Pt. 1 (Cast)	1874
ATS-113	1768	BS HR 403	1676	Buderus Cornix 2H	268
ATS-360	1322	BS HR 404	704	Buderus Cornix 30	333
ATS-390	1346	BS HR 601	1001	Buderus Factor 50	130
ATV R	51	BS HR 650	328	C-130	868
ATV S	229	BS 1342/2 ANC 16 (C)	1630	C-242	1547
ATV S7	505	BS 1346/2 ANC 9 (Cast)	926	C-1023	1279
ATV-3	316	BS 1346/2 ANC 10 (Cast)	1095	Capi 201 (Cast)	1783
ATV S	218	BS 1346/2 ANC 11 (C)	656	Capi 202 (Cast)	1888
ATV S MO	106	BS 1346/2 ANC 13 (C)	1739	Capi 204 (Cast)	1740
ATV S 2	302	BS 2HR 1	998	Capi 205 (Cast)	1867
ATV S 7	498	BS 2HR 2	1077	Capi 209 (Cast)	1828
ATV S 7 MO	542	BS 2HR 100	1703	Capi 219 (Cast)	1875
AT 30	183	BS 2HR 202	1078	Capi 221 (Cast)	1801
Aubert-Duval X20T	439	BS 2HR 401	1000	Capi 222 (Cast)	1761
Aument 4981	341	BS 2HR 501	1096	Capi 902 (Cast)	455
AWS A5.14	1569	BS 2HR 502	1097	Capi 960 (Cast)	451
B-1900 Alloy (Cast)	1460	BS 2HR 503	1080	Capivac IV (Cast)	1857
B-1910 (Cast)	1458	BS 2HR 504	1677	Carp. Valumeltrol 41	1040
B-1914 (Cast)	1378	BS 3072	1705	Carpenter A-286	78
B-1925 (Cast)	1229	BS 3073	1706	Carpenter Consumet 41	1029
B-1950 (Cast)	1410	BS 3074	1707	Carpenter Lapelloy	24
B-1952 (Cast)	1236	BS 3075	1708	Carpenter Lapelloy C	5
B-1964 (Cast)	1235	BS 3076	1709	Carpenter M-252	1116
B-1981 (Cast)	1242	BS 3143/3 VMA 3 (Cast)	872	Carpenter Meltrol 5615	33
Bofors RCT3	436	BS 3143/3 VMA 16A (C)	1223	Carpenter N-155	591
Bofors 2R046	29	BS 3146/2 ANC 8 (Cast)	1638	Carpenter Pyromet 31	213
BS HC 100 (Cast)	1704	BS 3146/2 ANC 9 (Cast)	925	Carpenter Pyromet 41	1033
BS HC 201 (Cast)	1477	BS 3146/2 ANC 13 (C)	1738	Carpenter Pyromet 80A	981
BS HC 202 (Cast)	1692	BS 3146/2 ANC 15 (C)	1702	Carpenter Pyromet 88	653
BS HC 203 (Cast)	1481	BS 3146/3 VMA 2 (Cast)	1469	Carpenter Pyromet 90	1059
BS HC 204 (Cast)	1385	BS 3146/3 VMA 3 (Cast)	1135	Carpenter Pyromet 102	723
BS HC 205 (Cast)	1605	BS 3146/3 VMA 4 (Cast)	1749,1856	Carpenter Pyromet 625	685
BS HC 206 (Cast)	1606	BS 3146/3 VMA 5 (Cast)	715,728	Carpenter Pyromet 80A	1524
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BS HR 4	1415	BS 3146/3 VMA 6B (C)	1453	Carpenter Pyromet 90	823
BS HR 5	1679	BS 3146/3 VMA 6C (C)	1397,1452	Carpenter Pyromet 102	877
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Carpenter X-751	899	D-979	222	EN2169(PR),1.4974 LN	606
Carpenter 19-9DL	400	DCM Alloy (Cast)	1320	EN2170(PR),1.4974 LN	607
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Carpenter 636 Alloy	20	DIN NiMo16Cr16Ti	1546	EN2172(PR),1.4944 LN	128
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CBL 32	1086	DIN NiCoCr15MoAlTi	1330,1417	EN2175(PR),1.4943 LN	308
CBL 34	1333	DIN NiCr15MoAlTi	706	EN2176(PR),2.4662 LN	708
CG-27	210	DIN NiCr18Co14MoTiAl	778	EN2177(PR),2.4662 LN	709
Chroman B2 MO	483	DIN NiCr22Fe18Mo	1505	EN2178(PR),2.4662 LN	710
Chromac	429	DIN NiCr20Co18Ti	974,1065	EN2179(PR),2.4634 LN	1337
Cinidur	230	DIN NiCr20Ti	1643,1688	EN2180(PR),2.4634 LN	1338
CM L-605	1812	DIN NiCr20TiAl	905	EN2181(PR),2.4634 LN	1339
CM-N-155	589	DIN X 10 NiCrAlTi 32	201	EN2182(PR),2.4665 LN	1506
CM-R41	1042	DIN X 12 CrCoNi 21 20	594	EN2183(PR),2.4665 LN	1507
CM-Waspaloy	955	DIN X 5 NiCrTi 26 15	102	EN2184(PR),2.4665 LN	1508
CM-7 (Cast)	1713	DIN X 40 CoCrNiW 45-20	1898	EN2185(PR),2.4665 LN	1509
CMCN	628	DIN X 8 NiCrMoTi 38-18	501	EN2188(PR),2.4631 LN	1013
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CNS4 17331	310	DTD 5026	105	EN2193(PR),2.4654 LN	948
CNS4 17335	313	DTD 5037	503	EN2194(PR),2.4654 LN	949
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Coralloy 4951	1658	Eastern Alloy 1030	941	EN2233(PR),2.4674 LN	1386
Coralloy 4952	1003	Eastern No. A-286	75	EN2237(PR),1.4974 LN	608
Coralloy 4967	1832	Eastern No. N-155	590	EN2238(PR),1.4974 LN	609
Coralloy 4969	1082	Eastern No. 41	1041	EN2239(PR),1.4974 LN	610
Cosint 1000	1377	Eastern No. 530	1590	EN2277(PR),1.4939 LN	284
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Croloy 15-15N	355	Eastern No. 801	426	EN2294(PR),2.4630 LN	1663
Croloy 19-9DL	397	EME	394	EN2295(PR),2.4632 LN	1088
Cromadur	477	EN2119(PR),1.4944 LN	126	EN2296(PR),2.4632 LN	1089
Cronifer 1515 NB	337	EN2161(PR),2.4682 LN	1853	EN2297(PR),2.4632 LN	1090
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EPK 36* (Cast)	1400	G.70	1281	GOST:EI607AL	863
EPK 55	884	G.73 (Cast)	1310	GOST:EI617	1180
EPK 57	972	G.76 (Cast)	862	GOST:EI618 (Cast)	1107
ERA H.R. 6W (Cast)	437	G.82	1194	GOST:EI650	810
Esshete 1250	329	G.83	1184	GOST:EI652	1200, 1203
EW 2-4951	1660	G.84 (Cast)	1406	GOST:EI661	1295
EW 2-4952	1006	G.85	1052	GOST:EI666A	1423
EW 4960	527	G.87	1901	GOST:EI675	1112
EW 4971	615	G.94 (Cast)	1437	GOST:EI698	918
EW 4977	558	G.95	1154	GOST:EI765	1113
EW 4980	120	G.101	661	GOST:EI765L (Cast)	1103
EW 4981	338	G.103	1511	GOST:EI766	1499
EW 4989	1784	G.104 (Cast)	1462	GOST:EI766A	1353
F.B.D.	492	G-CoCr 28	1916	GOST:EI826	1142, 1150
F.C.B.(T)	362	G-CoCr 28 Nb	1912	GOST:EI827	1292
F.D.P.	378	G-NiCr 28 W	1699	GOST:EI828	1296
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F-342	1409	G-X 30 NiCrSiNb 24 24	444	GOST:EI868	782, 787
FE-PA 91-HT	614	G-X 40 NiCrSi 38 18	371	GOST:EI869	916
Firth A-286	73	G-X 40 NiCrSiNb 38 18	375	GOST:EI873	873
Firth Discaloy	297	G-157	864	GOST:EI893	936
Firth Greek Ascology	34	G-192*	490	GOST:EI893L (Cast)	1101
Firth 16-25-6	349	Gaman H	488	GOST:EI894	1199
Firth 19-9DL	401	Gamma CB*	324	GOST:EI926	1928
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Ford-406	1309	GE Alloy 41	1050	GOST:EP109	1388
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FSX-414 (Cast)	1798	GMR 235	1259	GOST:EP199	1138
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G 4903	1930	GMR-236 (Cast)	1207	GOST:EP220	1283, 1284
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G.2	311	GOST:EI422	808	GOST:EP454	1314
G.4	462	GOST:EI435	1633, 1654, 1673	GOST:EP487	906, 911
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G.19 (Cast)	647	GOST:EI437A	803, 994	GOST:EP567	1623
G.21	465	GOST:EI437B	865	GOST:EP590	914
G.32	1900	GOST:EI437BU	867	GOST:EP677	913
G.34 (Cast)	1902	GOST:EI437R	817	GOST:EP691	903
G.39 (Cast)	1680	GOST:EI444	861	GOST:EP879	1249
G.42	622	GOST:EI445	992	Greek Ascology AISI 615	32
G.42B	623, 624	GOST:EI445R	886	G:Khaynes-Ne 1049	1899
G.44 (Cast)	1131	GOST:EI559	1211	G:Khaynes-25, L-605	1831
G.54 (Cast)	1682	GOST:EI598	928	G:Khaynes-31, X-40	1743
G.55 (Cast)	1149	GOST:EI599A	1197	G:KhN50MBVYu	1133
G.63	1627	GOST:EI602	793	G:KhN52KMVYuT	652
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G:KhN55VM7FKYuR	1196, 1348	G:Kh20N67M5V3TYuR	889	G:12N	792
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G:KhN56VMKYu	1389	G:Kh20N77T2YuR	811	G:37Kh12NSG8MFB	476
G:KhN56VMTYu	1139	G:Kh20N77T3Yu	806	G:45Kh14N14V2M	321
G:KhN57MTYu	915	G:Kh20N77T3YuR	814	H.F. Crown Max	458
G:KhN60MBYu	1132	G:Kh20N78T	1674	H.46	463
G:KhN60MKBYuT	1248	G:Kh20N80T	1670	H.48	447
G:KhN60V	790	G:Kh20N80TYu	801	H.53	644
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G:KhN67MTYu	993	G:Kh27N70Yu3	1204	Hastelloy Alloy 500	1161
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G:KhN67VHTYu	910	G:LK4Ya (Cast)	1756	Hastelloy B (W) (C)	1551
G:KhN70MVTYuB	929	G:LK65Ya (Cast)	1755	Hastelloy B-282	1618
G:KhN70MVTYuB	1179	G:L114 (Cast)	1436	Hastelloy C (W) (C)	1578
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G:KhN80TYu	797	G:VZh90	783	Haynes Alloy 31 (Cast)	1728
G:KhN80T2Yu	816	G:VZHH8	784	Haynes No. 713C	1432
G:Kh15N60V15	786	G:VZh101	1140	Haynes Stellite No. 6B	1862
G:Kh15N65M16	1621	G:V56 (Cast)	1104	Haynes Stellite No. 21	1870
G:Kh15N65M16V	1622	G:ZhS (Cast)	1137	Haynes Stellite No. 23	1886
G:Kh15N65V10M5T	930	G:ZhS3 (Cast)	1108	Haynes Stellite No. 36	1748
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G:Kh15N74TYu3	1213	G:0Kh27N70Yu3	1201	Haynes Stellite 23*	1889
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IN-597	1055	ISO 12 (Draft)	1661	Laste 4967	1835
IN-643 (Cast)	1710	ISO 16 (Draft)	748	Laste 4969	1087
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Incoloy 903	504	Jessop GB.18	522	M-204	1757
Inconel 904	493	Jessop R-22	454	M-205	1718
Inconel Alloy X-750	822	Jessop-Saville G.46	257	M-252, AISI 689	1119
Inconel Alloy 601	931	Jessop-Saville G.64 C	1465	M-308*	136
Inconel Alloy 625	683	Jessop-Saville G.84C	1407	M-600	880

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M-813	215	N-155, Multimet Alloy	572	Nimocast 739	1109
M-3608 (Cast)	1457	N-156	620	Nimoloy Alloy PK 37	895,896
MAR-M Alloy (Cast)	1291	NA-22H (Cast)	457	Nimonic Alloy C242 (C)	1548
MAR-M Alloy 200 (Cast)	1404	NASA Alloy (Cast)	1488	Nimonic Alloy C263	713
MAR-M Alloy 211 (Cast)	1402	NC 20 K 14 (Cast)	943	Nimonic Alloy PE11	502870
MAR-M Alloy 246 (Cast)	1367	NC 20TA	979	Nimonic Alloy PE13	1510
MAR-M Alloy 247 (Cast)	1360	NCF 2	184	Nimonic Alloy PE16	902
MAR-M Alloy 302 (Cast)	1750	NCF 2H	157	Nimonic Alloy PK25	1152
MAR-M Alloy 322 (Cast)	1892	Nemicle	252	Nimonic Alloy PK31	716
MAR-M Alloy 432 (Cast)	1156	Nemicle C	253	Nimonic Alloy PK33	1187
MAR-M Alloy 509 (Cast)	1855	Nemicle F	254	Nimonic Alloy 58 (C)	1422
MAR-M Alloy 918	1805	NI-O-NEL (Former Name)	65	Nimonic Alloy 75	1668
Marker SC 10	1083	Nickelvac A-286	76	Nimonic Alloy 80	798
Marker SL 8	1004	Nickelvac L-605	1816	Nimonic Alloy 80A	985
Marker SL 15	1028	Nickelvac-155	592	Nimonic Alloy 81	1111
Marker 4980	118	Nickelvac W	681	Nimonic Alloy 86	1498
Marker 4981	335	Nickelvac X-750	824	Nimonic Alloy 90	1069
Marweder F11	279	Nickelvac 90	1058	Nimonic Alloy 91	897
MC-102	1604	Nickelvac 625	675	Nimonic Alloy 93	1054
Meico 2	1753	Nickelvac-700	1270	Nimonic Alloy 95*	1192
Meico 9	1725	Nickelvac 901	144	Nimonic Alloy 100	1419
Meico 10	1802	Nicral C	179,196	Nimonic Alloy 101	971
Meico 14	1803	Nicral CT	430	Nimonic Alloy 105	1341
Meini 19	1275	Nicral C2	156	Nimonic Alloy 110	1387
Meini 22	1276	Nicral K 25	66	Nimonic Alloy 115	1412
MIL-JAN-W-562	820	Nicral ZA	934	Nimonic Alloy 118	1342,1345
MIL-N-6840*	660	Nicrofer 7520	1636	Nimonic Alloy 120	1308
MIL-N-7786	825	Nicromaz 20	433	Nimonic Alloy 263	729
MIL-N-8550	826	Nicrotung (Cast)	1347	Nimonic Alloy 901	700
MIL-N-18088	1602	Nimocast Alloy 75 (C)	669	Nimonic Alloy 942	654
MIL-N-24114 (Ships)	827	Nimocast Alloy 80 (C)	920,927	Nimonic B	922
MIL-R-5031*	1566	Nimocast Alloy 90 (C)	883,892	Nimonic C	879
MIL-R-17131	1869	Nimocast C-242 (Cast)	657	Nimonic CB (Cast)	923
MIL-S-16538*	354	Nimocast MC 57 (Cast)	875	Nimonic CC (Cast)	921
MIL-S-21977*	819	Nimocast MC 58 (Cast)	1343	Nimonic CF (Cast)	1620
MIL-S-23192 (Ships)	828	Nimocast PD 16 (Cast)	1472	Nimonic C75 (Cast)	671
ML 1700 (Cast)	1752	Nimocast PD21 (Cast)	1486	Nimonic F	1681
MO-RE 2 (Cast)	459	Nimocast PE10 (Cast)	1691	Nimonic MC 57 (Cast)	876
MP159	495	Nimocast PK24 (Cast)	1384	Nimonic PE 7	506
MTS-1	278	Nimocast PK 36 (Cast)	1401	Nimonic PK50	968
MTS-2	518	Nimocast 235D (Cast)	1468	Nimonic 80A	980
MTS-4	290	Nimocast 242 (Cast)	1549	Nimonic 90	1057
MTS-6-G	274	Nimocast 257 (Cast)	874	Nimonic 120	1321
MTS-8-G (Cast)	517	Nimocast 258 (Cast)	1344	Nivco 10	1711
Multi-Alloy	1608	Nimocast 263 (Cast)	741	Novotherm 125A	1797
N 115	1414	Nimocast 713 (Cast)	1479	Noxis 4	519
N-153	532	Nimocast 713LC (Cast)	1478	NS 190	345
N-154	619	Nimocast 713V (Cast)	1448	NX-188 (Cast)	1490
N-155 (Cast)	586	Nimocast 738 (Cast)	1219	Oneral M-47 (Cast)	1908
N-155 Multimet (Cast)	597	Nimocast 738LC (Cast)	1220,1493	Oneral S-90 (Cast)	1909

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PDR-L102	720	Pyrotherm UNCO 50	1904	RSABS MH.45	1067
PDR-L162	1447	Pyrotherm UNCO 51	1921	RGT 0, 2.4630 LN	1640
PDR-L163	1439	R 75 (NiCr20Ti)	1905	RGT 1, 1.4944 LN	99
PER 1	1614		1652	RGT 3, 2.4631 LN	1017
PER 2	1615	R 800 H	162	RTG 4, 2.4976 DIN	1022
PER 2B	1607	R 825 (DIN NiCr31Mo)	68	RTG 5, 2.4665 LN	1544
PER 2U	1130	R.20	468	RTG 6	857
PER 2X	988	R.22 (Cast)	470	RTG 9	221
PER 2Y	1100	R.45	469	RTG 12	1093
PER 3	1494	R.47	467	RTG 13	1098
PER 7	1335	RA-333	1611	RTG 14	1177
PER 13	1484	Rayotherm 960G (Cast)	526	RTG 15, 2.4973 DIN	1031
PER 20N	846	Refractalloy B	452	RTG 16, 2.4634 LN	1340
PER 263	730	Refractalloy 26	540	RTG 18	1271
Phoenix R 50 CO	1795	Refractalloy 70	627	RTG 24	1791
Phoenix R 75	1651	Refractalloy 80	626	RTG 32, 1.4974 LN	571
Phoenix R 800	194	Rene Y	1500	RTG 131, 2.4650 LN	740
Phoenix R 800 H	161	Rene 41, AISI 683	1034	RTG 501	1626
Phoenix R 802	206	Rene 62*	917	RTG 601, 2.4668 LN	779
Phoenix R 825	69	Rene 63	1247	R40T	119
PN 4H14N14W2N	322	Rene 77	1297	R50CO (DIN CoCr28Fe)	1796
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PN 69/H-87047	648	Rene 85	1354	R80	1005
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Poldi KAPTOR	640	Rex 78	318	S-495*	319
Poldi L-AKR	641	Rex 326D	636	S-497	546
Poldi L-AKRD	642	Rex 400	796	S-500	561
PWA 1030	958	RL-35-100* (Cast)	246	S-588*	365
Pyrad 33	182	RNO MO V	270	S-590	550
Pyrad 44 D	701	RNOD 1.4914 LN	259	S-816 Alloy (Cast)	1775
Pyrad 49 D	1535	RNOD CO	513	S-816 Alloy (Wrought)	1774
Pyrodur CO 50	1914	RNOD NI	280	S-816 B (Cast)	1721
Pyrodur CO 51	1910	Ross Vac 29 (Cast)	1068	S-844*	1772
Pyrodur 30 CN 38 NB	373	Ross Vac 42 (Cast)	1157	SA-N33 (Cast)	1497
Pyrodur 40 CM 38	369	Ross Vac 45 (Cast)	984	SAE J467, (Discaloy)	307
Pyromet X-12	3,631	Ross Vac 52 (Cast)	1873	SAE J467, (Lapelloy C)	8
Pyromet X-15	547	Ross Vac 53 (Cast)	1254	SAE J467, (Lapelloy)	25
Pyromet X-750, AMS 688	850	Ross Vac 54 (Cast)	1637	SAE J467, (W-545)	241
Pyromet X-751	900	Ross Vac 58 (Cast)	1459	SAE J467, (422)	22
Pyromet 95	1225	Ross Vac 83 (Cast)	1737	SAE J467, (422M)	14
Pyromet 102	750	RSABS MH.03	1502	SAE J467, (422M) (Cast)	15
Pyromet 350, AISI 633	47	RSABS MH.04	852	SAE J467, A-286	94
Pyromet 355, AISI 634	45	RSAB MH.05	1678	SAE J467, D-979	226
Pyromet 625	682	RSABS MH.06	777	SAE J467, Greek Ascology	39
Pyromet 680, AISI 680	1540	RSABS MH.07	997	SAE J467, W-545	239
Pyromet 718	773	RSABS MH.10	1066	SAE J467, 10-9DL	415
Pyromet 860	219,508	RSABS MH.14	1327	SAE J467, 19-9DX	393
Pyromet 925	1250	RSABS MH.16	702	Sandvik Sanicro 71	697

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Saville G.2	312	Thetalloy (Cast)	1501	UCAR Alloy C-276	1575
Saville G.18B	523	Timkin 16-15-6	481	UCAR Alloy C-1023	1277
SC 210B	339	Timkin 16-25-6	348	UCAR Alloy FSX-414	1726
SEL (Cast)	1300	Tinidur	53	UCAR Alloy GMR-235 (C)	1257
SEL 1 (Cast)	1302	Tinidur 1650	54	UCAR Alloy GMR-235D (C)	1232
SEL 15 (Cast)	1355	Tinidur 1875	55	UCAR Alloy IN-100 (C)	1370
SEW-471, G-CoCr 28	1915	Tophet 75	1657	UCAR Alloy IN-102	721
SEW-471, G-CoCr 28Nb	1911	Tophet 80A	1002	UCAR Alloy IN-625	695
SEW-471, G-NiCr 28 W	1698	Tophet 90	1081	UCAR Alloy IN-700	1265
SEW-471, GX30NiCrSiNb	443	TRW MOD 1900 (Cast)	1440	UCAR Alloy IN-722	860
SEW-471, GX40NiCrSiNb3	374	TRW NASA I-5	1443	UCAR Alloy IN-731 (C)	1361
SEW 595, GX22CrMoV121	264	TRW NASA II-B	1304	UCAR Alloy IN-738 (C)	1217
Shaninigan X	438	TRW NASA II-D	1115	UCAR Alloy IN-792 (C)	1205
Sirius 30	417	TRW NASA III-G	1305	UCAR Alloy M-21	1390
Sirius HT	539	TRW NASA IV-Y (Cast)	1356	UCAR Alloy M-22	1449
SM-302	1751	TRW NASA VI-A (Cast)	1357	UCAR Alloy M-252	651
SM-322 (Cast)	1893	TRW 1800 (Cast)	1467	UCAR Alloy M-509 (C)	1858
Spin 204 (Cast)	1741	TRW 1900 (Cast)	1442	UCAR Alloy MC-102	1687
Spin 205 (Cast)	1868	TRW 2278 (Cast)	1441	UCAR Alloy R-41	1030
Spin 209 (Cast)	1829	Turbaloy 13	214	UCAR Alloy R-80	1255
Spin 219 (Cast)	1876	Turbotherm 12	356	UCAR Alloy R-95	1226
Spin 320 (Cast)	672	Turbotherm 13CO-10	530	UCAR Alloy U-500	1178
Spin 960 (Cast)	450	Turbotherm 15M	42	UCAR Alloy U-520	1136
Stellite X-40	1745	Turbotherm 20 CO 20	601	UCAR Alloy U-700	1288
Stellite X-40 (Cast)	1736	Turbotherm 20 CO 45	1788	UCAR Alloy U-710	1146
Stellite 6	1894	Turbotherm 20 CO 50	1834	UCAR Alloy U-722	859
Stellite 7	1880	Turbotherm 20 M	30	UCAR Alloy Waspaloy	947
Stellite 8	1881	Turbotherm 20 MV	28	UCAR Alloy X	1541
Stellite 8 (Cast)	1925	Turbotherm 20 MVNB	7	UCAR Alloy X-40 (C)	1744
Styria RKW	43	Turbotherm 20 MVW	27	UCAR Alloy X-45 (C)	1747
Super Ascology	368	Turbotherm 20 CO-20S	565	UCAR Alloy X-750	851
TAZ-8 (Cast)	1487	Turbotherm 20 CO-45	630	UCAR Alloy 11	497
TAZ-8A (Cast)	1473	Turbotherm 26 CO 60	1861	UCAR Alloy 16	211
TAZ-8B (Cast)	1463	Turbotherm 35 CO-20	548	UCAR Alloy 25	1712
TDNCR	1696	Turbotherm 1525 T	125	UCAR Alloy 75	1656
Techalloy Waspaloy	940	Turbotherm 1613 MV	359	UCAR Alloy 80A	996
Thermalloy 40A2	456	Turbotherm 1613 NB	360	UCAR Alloy 90	1076
Thermalloy 50CQ	327	Turbotherm 1616 M	340,357	UCAR Alloy 199	919
Thermax 75	1690	Turbotherm 2055 CO	1084	UCAR Alloy 713C (C)	1429
Thermax 90	1060	Turbotherm 2075	1008	UCAR Alloy 713LC (C)	1394
Thermax 4876	202	Turbotherm 2080	1683	UCAR Alloy 718	774
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Thermodur CMW 11	263	UAB Stainless 851	271	UCAR Alloy 901	150
Thermodur 30CN24 24NB	442	UCAR Alloy A-286	113	Udimet Waspaloy	954
Thermodur 50 CNW 30 5	1697	UCAR Alloy B1914 (C)	1358	Udimet 41, AISI 683	1039
Thermon 4911 Vakumelt	514	UCAR Alloy B1925 (C)	1222	Udimet 90	1061
Thermon 4951	1884	UCAR Alloy C	1601	Udimet 500	1159
Thermon 4952 Vakumelt	1009	UCAR Alloy C-130	871	Udimet 520	1186
Thermon 4980 Vakumelt	123	UCAR Alloy C-242 (C)	1550	Udimet 625	684

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Udimet 700	1267,1298	Vakumelt ATS 381-G (C)	1379	Werkstoff 2.4650 LN	744
Udimet 710	1147	Vakumelt ATS 385 LC-G	1240	Werkstoff 2.4654 LN	970
Udimet 718	753	Vakumelt ATS 391-G (C)	1371	Werkstoff 2.4662 LN	712
Udimet 720	1148	Vakumelt 380-F (Cast)	1289	Werkstoff 2.4665 LN	1495
Udimet 901	142	Ventos 4952 Vakumelt	1010	Werkstoff 2.4668 LN	771
Ugine QA18	255	Ventos 4631	1026	Werkstoff 2.4670 LN	1451
UMCO-50	1919	Ventos 4969 Vakumelt	1085	Werkstoff 2.4672 LN	726
UNCO-51	1918	Ventos 4971	567	Werkstoff 2.4674 LN	1461
Unilloy 19-9DL	411	Virgo 74	1591	Werkstoff 2.4676 LN	1366
Unilloy 19-9DX	384	Virgo 86 (Cast)	1731	Werkstoff 2.4682 LN	1851
Unitemp L-605	1817	Virgo 87B (Cast)	1466	Werkstoff 2.4778 DIN	1917
Unitemp A-286	79	Vitalium (Cast)	1877	Werkstoff 2.4779 DIN	1913
Unitemp AF 1753	1105	VL7-45U (Cast)	244	Werkstoff 2.4856 DIN	181,673
Unitemp AF 2-1DA	1318	VMA 14 (Cast)	1368	Werkstoff 2.4879 DIN	1700
Unitemp C-300	1218	W-545	234	Werkstoff 2.4951 DIN	1889
Unitemp EME	395	Waimet WL-52 (Cast)	1866	Werkstoff 2.4952 DIN	1025
Unitemp HN	650	Waspaloy A	951	Werkstoff 2.4964 LN	1824,1844
Unitemp HX	1514	WAZ-20 (Cast)	1450	Werkstoff 2.4967 DIN	1843
Unitemp M-252	1117	Werkstoff 1.4790 DIN	766	Werkstoff 2.4969 DIN	978
Unitemp N-155	585	Werkstoff 1.4849 DIN	376	Werkstoff 2.4972 DIN	1543
Unitemp R-41	1043	Werkstoff 1.4855 DIN	445	Werkstoff 2.4973 DIN	1032
Unitemp S-590	553	Werkstoff 1.4865 DIN	372	Werkstoff 2.4975 DIN	152
Unitemp S-816	1778	Werkstoff 1.4876 DIN	153	Werkstoff 2.4976 DIN	1023
Unitemp 19-9DL	399	Werkstoff 1.4898 DIN	148	Werkstoff 2.4982 DIN	1099
Unitemp 19-9W-MO	421	Werkstoff 1.4911 LN	511	Werkstoff 2.4983 DIN	1171
Unitemp 19 9WX	424	Werkstoff 1.4914 LN	275	Werkstoff 2.4989 DIN	1790
Unitemp 188	1762	Werkstoff 1.4924 LN	261	Westinghouse W-545	235
Unitemp 212*	52	Werkstoff 1.4930 LN	2	WF-11	1808
V-36	1769,1773	Werkstoff 1.4931 DIN	266	WF-31	1852
V-57	131	Werkstoff 1.4934 LN	258	WF 100D	315
Vaccutherm C 263	749	Werkstoff 1.4939 LN	289	WI-52 (Cast)	1864
Vaccutherm HX	1537	Werkstoff 1.4943 LN	309	Wiggin Alloy C263	727
Vaccutherm 5-34	273	Werkstoff 1.4944 LN	92,100,110	Witten DA 208 DL	1635
Vaccutherm 5-38	283	Werkstoff 1.4949 DIN	159	Witten DA 1525 LVA	80
Vaccutherm 6-18	410	Werkstoff 1.4957 LN	544	Witten DA 2019	568
Vaccutherm 7-20	71,112,639	Werkstoff 1.4971 DIN	566,596,613	Witten DA 2019L	593
Vaccutherm 8-11	599	Werkstoff 1.4974 LN	545,595	Witten DA 2020	564
Vaccutherm 8-11H	559	Werkstoff 1.4977 DIN	563	Witten DA 2040	1842
Vaccutherm 8-13	1830	Werkstoff 1.4978 DIN	549	Witten DA 2060 Ti	977
Vaccutherm 8-13H	1786	Werkstoff 1.4980 DIN	101,108,129	Witten DA 2060 TiL	975
Vaccutherm 9-1	1653	Werkstoff 1.4984 LN	361	Witten DA 2080	1694
Vaccutherm 80	990	Werkstoff 2.4054 LN	944	Witten DA 2080 Ti	1024
Vaccutherm 718	768	Werkstoff 2.4600 DIN	1570	Witten DA 2080 TiL	904
Vakumelt ATS 241-G (C)	890	Werkstoff 2.4602 DIN	1594	Witten DA 20401	1850
Vakumelt ATS 270	775	Werkstoff 2.4613 DIN	1533	X 203 (W) (C)	638
Vakumelt ATS 281-G	1391	Werkstoff 2.4630 LN	1642,1648,1848	XN 26 T.W	121
Vakumelt ATS 290-G (C)	1430	Werkstoff 2.4631 LN	982,1020,1027	X-40 (Cast)	1733
Vakumelt ATS 331-G (C)	746	Werkstoff 2.4632 LN	976,1062,1072	X-45 (Cast)	1746
Vakumelt ATS 340-G (C)	893	Werkstoff 2.4634 LN	1323	X-50 (Cast)	1924

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X20T2	440
Z10 NKC 30	499
Z 42 CKNDW 20	557
Zim alloy	1882
16-15-6	480
16-25-6	347
17-14 CUMO	325
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19-9DX	379
19-9WMO	418
19-9WX	135
21-6-9	486
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AU Phoenix R 75	1651	EU EN2164(PR),2.4964 LN	1839	EU EN2302(PR),2.4630 LN	1664
AU Phoenix R 800	194	EU EN2165(PR),2.4964 LN	1840	EU EN2306(PR),2.4630 LN	1665
AU Phoenix R 800 H	161	EU EN2166(PR),2.4964 LN	1841	EU EN2307(PR),2.4630 LN	1666
AU Phoenix R 802	206	EU EN2167(PR),1.4974 LN	604	EU EN2308(PR),2.4630 LN	1667
AU Phoenix R 825	69	EU EN2168(PR),1.4974 LN	605	FR Adnic 240 D.T	516
AU R 800 H	162	EU EN2169(PR),1.4974 LN	606	FR Adnic 265D	1617
AU R 825 (DIN NICKR31MO)	68	EU EN2170(PR),1.4974 LN	607	FR AECMA CO-C 91-HT	1854
AU R50CO (DIN COCR28FE)	1796	EU EN2171(PR),1.4944 LN	127	FR AECMA CO-P 92-HT	1827
AU R800(1 ONICRALTI32-20)	164	EU EN2172(PR),1.4944 LN	128	FR AECMA FE-PA 91-HT	583
AU R802(X40NICRALTI32-20)	207	EU EN2173(PR),1.4943 LN	293	FR AECMA FE-PA 92-HT	104
AU Styria RKW	43	EU EN2174(PR),1.4943 LN	294	FR AECMA FE-PA 92-HT	109
AU Turbotherm 12	356	EU EN2175(PR),1.4943 LN	308	FR AECMA FE-PA 93 HT	305
AU Turbotherm 13CO-10	530	EU EN2176(PR),2.4662 LN	708	FR AECMA FE-PA 99-HT	705
AU Turbotherm 15M	42	EU EN2177(PR),2.4662 LN	709	FE AECMA FE-PM36,1.4914L	260
AU Turbotherm 1525 T	125	EU EN2178(PR),2.4662 LN	710	FR AECMA FE-PM37,1.4939L	288
AU Turbotherm 1613 NB	360	EU EN2179(PR),2.4634 LN	1337	FR AECMA FE-PM38,1.4911L	461
AU Turbotherm 1613MV	359	EU EN2180(PR),2.4634 LN	1338	FR AECMA NI-C 103-HT (C)	856
AU Turbotherm 1616M	357	EU EN2181(PR),2.4634 LN	1339	FR AECMA NI-C 98-HT	1427
AU Turbotherm 20 CO 45	1788	EU EN2182(PR),2.4665 LN	1506	FR AECMA NI-P 61-HT	1329
AU Turbotherm 20 M	30	EU EN2183(PR),2.4665 LN	1507	FR AECMA NI-P 91-HT	1645
AU Turbotherm 20 MV	28	EU EN2184(PR),2.4665 LN	1508	FR AECMA NI-P 91-HT	1649
AU Turbotherm 20MVNB	7	EU EN2185(PR),2.4665 LN	1509	FR AECMA NI-P 93-HT	1534
AU Turbotherm 20 MVW	27	EU EN2186(PR),2.4631 LN	1013	FR AECMA NI-P 94-HT	1172
AU Turbotherm 20CO-20S	565	EU EN2189(PR),2.4631 LN	1014	FR AECMA NI-P 95-HT	1021
AU Turbotherm 20CO-45	630	EU EN2190(PR),2.4631 LN	1015	FR AECMA NI-P 96-HT	1063
AU Turbotherm 26 CO 60	1861	EU EN2191(PR),2.4631 LN	1016	FR AECMA NI-P 96-HT	1073
AU Turbotherm 35CO 20	548	EU EN2192(PR),2.4670 LN	1403	FR AECMA NI-P 100-HT	772
BE UMC0-51	1918	EU EN2193(PR),2.4654 LN	948	FR AECMA NI-P 101-HT	945
CN AM 355,AlSi 634(Cast)	46	EU EN2194(PR),2.4654 LN	949	FR AECMA NI-P 102-HT	1416
CN Jetalloy 209	1907	EU EN2195(PR),2.4654 LN	950	FR AECMA NI-P 105-HT	745
CN Jetalloy 249	1922	EU EN2199(PR),2.4650 LN	735	FR AFNOR E-Z 6 NCT 25	103
CN Shaninigan X	438	EU EN2200(PR),2.4650 LN	736	FR AFNOR K-C20WN	1859
CN Stellite X-40	1745	EU EN2201(PR),2.4650 LN	737	FR AFNOR K-C22WTA (Cast)	1885
CN Stellite 6	1894	EU EN2202(PR),2.4650 LN	738	FR AFNOR K-C 25NW (Cast)	1884
CN Stellite 7	1880	EU EN2203(PR),2.4650 LN	739	FR AFNOR KC 20 WN	1826
CN Stellite 8	1881	EU EN2233(PR),2.4674 LN	1386	FR AFNOR N-CK15ATD	1405
CZ CNS4 17134	10	EU EN2237(PR),1.4974 LN	608	FR AFNOR N-C20DAT	1251
CZ CNS4 17225	323	EU EN2238(PR),1.4974 LN	609	FR AFNOR N-C13AD (Cast)	1455
CZ CNS4 17252	422	EU EN2239(PR),1.4974 LN	610	FR AFNOR N-C20KDTA	1158
CZ CNS4 17331	310	EU EN2277(PR),1.4939 LN	284	FR AFNOR NC 13 AD	1426
CZ CNS4 17335	313	EU EN2278(PR),1.4939 LN	285	FR AFNOR NC 15 T NB A	845
CZ CNS4 17351	204	EU EN2279(PR),1.4939 LN	286	FR AFNOR NC 15FET(NB)	853
CZ Poldi AKCM	643	EU EN2280(PR),1.4939 LN	287	FR AFNOR NC 17 DWY	1593
CZ Poldi KAPTOR	640	EU EN2293(PR),2.4630 LN	1662	FR AFNOR NC 19 FE NB	770
CZ Poldi L-AKR	641	EU EN2294(PR),2.4630 LN	1663	FR AFNOR NC 19 KDU/V	1189
CZ Poldi L-AKRD	642	EU EN2295(PR),2.4632 LN	1088	FR AFNOR NC 20 KDTA	1170
EU EN2119(PR),1.4944 LN	126	EU EN2296(PR),2.4632 LN	1089	FR AFNOR NC 20 KTA	1071
EU EN2161(PR),2.4692 LN	1853	EU EN2297(PR),2.4632 LN	1090	FR AFNOR NC 20 N13 (C)	1693
EU EN2162(PR),2.4954 LN	1837	EU EN2298(PR),2.4632 LN	1091	FR AFNOR NC 20 T	1644

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FR AFNOR NC 20 TA	1019	FR ATG B	525	FR PER 2B	1607
FR AFNOR NC 20KTAT	1064	FR ATG C1	769	FR PER 2U	1130
FR AFNOR NC 21 FE DU	67	FR ATG E	1531	FR PER 2X	988
FR AFNOR NC 22 FE D	1532	FR ATG E2	676	FR PER 2Y	1100
FR AFNOR NC 22 FE D NB	677	FR ATG F	844	FR PER 3	1494
FR AFNOR NCK 18 TDA	1145	FR ATG M	435	FR PER 7	1335
FR AFNOR NCK 20 D	743	FR ATG M2	1382	FR PER 20N	846
FR AFNOR NCK 20D	734	FR ATG R	1646	FR PER 263	730
FR AFNOR ND 27 FE V	1569	FR ATG S3	987	FR PYRAD 33	182
FR AFNOR NK 15 CAT(Cast)	1383	FR ATG S3	1018	FR PYRAD 44 D	701
FR AFNOR NK 18 CDAT	1287	FR ATG S4	1070	FR PYRAD 49 D	1535
FR AFNOR NK 20 CDAT	1352	FR ATG S8	1263	FR SC 2108	339
FR AFNOR NK 27 CADT	1264	FR ATG S9	1425	FR SIRIUS HT	539
FR AFNOR NKCD 20 ATV	1331	FR ATG WO	742	FR SIRIUS 30	417
FR AFNOR Z 12 CNKDW 20	612	FR ATG W1	942	FR UGINE OA18	255
FR AFNOR Z 3 NCT 25	303	FR ATG W2	1169	FR VIRGO 74	1591
FR AFNOR Z 4 NCDT 26	304	FR ATG W3	1286	FR VIRGO 86 (Cast)	1731
FR AFNOR Z 5 NCTD V 25	160	FR ATG W4	1144	FR VIRGO 87B (Cast)	1466
FR AFNOR Z 6 NCKDW 45	1610	FR ATG X	611	FR X 203 (W) _(C)	638
FR AFNOR Z 6 NCT 25	107	FR ATG XX	556	FR X.N 26 T.W	121
FR AFNOR Z6 NKCDT 38	543	FR ATG 33	1609	FR XN 20 C (W) _(C)	637
FR AFNOR Z8 NC DT42	707	FR ATGS 65	1324	FR XSH	1860
FR AFNOR Z8 NC D38	500	FR ATV R	51	FR X20T2	440
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FR AIR 9165-031	453	FR ATVS MO	106	FR Almenit 4981	344
FR AIR 9165-041	363	FR ATVS 2	302	FR Almenit 4989	1789
FR AIR 9165-051	598	FR ATVS 7	498	FR Almenit 4989 (W) _(C)	1785
FR AIR 9165-061	306	FR ATVS 7 MO	542	FR AMS 5380 (Cast)	1398
FR AIR 9165-071	111	FR Aubert-Duval X20T	439	FR Antinit 1525	122
FR AIR 9165-081	149	FR EA 1	1007	FR ATS	358
FR AIR 9165-091	1650	FR FE-PA 91-HT	614	FR ATS 2	330
FR AIR 9165-101	989	FR IMPHY A.T.G.	1619	FR ATS-6	364
FR AIR 9165-111	969	FR NC 20 K 14	943	FR ATS-15	332
FR AIR 9165-121	767	FR NC 20TA	979	FR ATS 17-G (Cast)	441
FR AIR 9165-131	1536	FR Nicral C	179	FR ATS-26	331
FR AIR 9165-141	1173	FR Nicral C	196	FR ATS-101	531
FR AIR 9165-151	714	FR Nicral CT	430	FR ATS-103	562
FR AIR 9165-161	1053	FR Nicral C2	156	FR ATS-105	538
FR AIR 9165-171	1290	FR Nicral K 25	66	FR ATS-113	1768
FR AIR 9165-181	1143	FR Nicral ZA	934	FR ATS 105-G (Cast)	569
FR AIR 9165-191	1325	FR Nicromaz 20	433	FR ATS 113-G (Cast)	1794
FR AIR 9165-201	1836	FR Noxis 4	519	FR ATS 114-G (Cast)	1806
FR AIR 9165-211	1763	FR NS 190	345	FR ATS 114-G SO 1 (Cast)	1727
FE Alacrite X.S.H	1833	FR Oneral M-47 (Cast)	1908	FR ATS 200-G (Cast)	670
FR Arc 1628	1568	FR Oneral S-90 (Cast)	1909	FR ATS 241-G (Cast)	891
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FR ASR1	537	FR PER 13	1484	FR ATS 281-G (Cast)	1392

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GY ATS 290-G (Cast)	1431	GY DIN X8NICOORTI55-20-2	1074	GY Pyrodur CO 50	1914
GY ATS 301-G (Cast)	668	GY DIN X8NICALRTI 75-20	986	GY Pyrodur CO 51	1910
GY ATS 331-G (Cast)	747	GY DIN-NICR 20 CD 18 TI	1065	GY Pyrodur 30 CN 38 NB	373
GY ATS 340-G (Cast)	894	GY DINCOCR20W15NI	1849	GY Pyrodur 40 CM 38	369
GY ATS-360	1322	GY Durotherm 600	496	GY Pyrotherm G UMCO 50(c)	1920
GY ATS 361-G (Cast)	1176	GY Durotherm 700	507	GY Pyrotherm G UMCO 51(C)	1904
GY ATS 381-G (Cast)	1380	GY EW 4960	527	GY Pyrotherm UMCO 50	1921
GY ATS 385 LC-G (Cast)	1241	GY EW 4971	615	GY Pyrotherm UMCO 51	1905
GY ATS-390	1346	GY EW 4977	558	GY R 75 (NICR 20 TI)	1652
GY ATS 391-G (Cast)	1372	GY EW 4980	120	GY Rayotherm 960G (Cast)	526
GY ATS-G (Cast)	346	GY EW 4981	338	GY RGT 0.2-4630LN	1640
GY Aumenit 4981	341	GY EW4989	1784	GY RGT 24	1791
GY Buderus Cornix 2H	268	GY EW 2-4951	1660	GY RGT1.1.4944LN	99
GY Buderus Cornix 30	333	GY EW 2-4952	1006	GY RNO MO V	270
GY Buderus Factor 50	130	GY F.B.D.	492	GY RNOD .1.4914 LN	259
GY BVT 130V	269	GY G-COCR 28	1916	GY RNOD CO.1.4911 LN	513
GY BVTA 10 CO	529	GY G-COCR 28 NB	1912	GY RNDD NI	280
GY CBL 30	1685	GY G-NICR 28 W	1699	GY RTG 3, 2.4631 LN	1017
GY CBL 31	1011	GY G-X 22 CRMO V 121	265	GY RTG 4, 2.4976 DIN	1022
GY CBL 32	1086	GY G-X 30 NICKRSINB 24 24	444	GY RTG 5, 2.4665 LN	1544
GY CBL 34	1333	GY G-X 40 NICKRSI 38 18	371	GY RTG 6	857
GY Chroman B2 MO	483	GY G-X 40 NICKRSINB 38 18	375	GY RTG 8, 2.4664 LN	151
GY Contracid B7MO	478	GY HDA22	336	GY RTG 9	221
GY Coracid 4923	267	GY HS-31 (Cast)	1734	GY RTG 12, 2.4632 LN	1093
GY Coracid 4980	116	GY HW MO V 2	1334	GY RTG 13, 2.4982 DIN	1098
GY Coralloy 4634	1332	GY HWL 2	334	GY RTG 14, 2.4983 DIN	1177
GY Coralloy 4951	1658	GY HWL 80	117	GY RTG 15, 2.4973 DIN	1031
GY Coralloy 4952	1003	GY Laste 4634	1336	GY RTG 16, 2.4634 LN	1340
GY Coralloy 4967	1832	GY Laste 4951	1686	GY RTG 18	1271
GY Coralloy 4969	1082	GY Laste 4952	1012	GY RTG 32, 1.4974 LN	571
GY Cromadur	477	GY Laste 4960	528	GY RTG 131, 2.4650 LN	740
GY Cronifer 1515 NB	337	GY Laste 4967	1835	GY RTG 501	1626
GY DIN G-NICR 13 AL6MDNB	1482	GY Laste 4969	1087	GY RTG 601, 2.4668 LN	779
GY DIN NI MO 16CR 16Ti	1546	GY Laste 4971 (W) ₁ (C)	603	GY R40T	119
GY DIN NI MO 30	1560	GY Laste 4977	560	GY R75	1659
GY DIN NI MO16 CR15 W	1571	GY Laste 4980	124	GY R80	1005
GY DIN NICOOR 15 MOALTI	1330	GY Laste 4989 (W) ₁ (C)	1787	GY SEW 595.GX22CRMV121	264
GY DIN NICOOR 15 MOALTI	1417	GY Marker SC 10	1083	GY SEW-471 G-COCR 28	1915
GY DIN NICR 15 MOTI	706	GY Marker SL 15	1028	GY SEW-471 G-COCR 28 NB	1911
GY DIN NICR 18CO14MOTIAL	778	GY Marker SL 8	1004	GY SEW-471 G-NICR 28 W	1698
GY DIN NICR 22 FE 18 MO	1505	GY Marker 4980	118	GY SEW-471.GX30NICRSINB	443
GY DIN NICR20CO18TI	974	GY Marker 4981	335	GY SEW-471.GX40NICRSINB3	374
GY DIN NICR20TI	1643	GY Marweder F11	279	GY SEW-471.GX40NICRSI381	370
GY DIN NICR20TI	1688	GY MTS 5-G	274	GY Thernax 4876	202
GY DIN NICR20TIAL	905	GY MTS 8-G (Cast)	517	GY Thermoanit ATS 15	343
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GY Thernon 4952 Vakumelt	1009	GY Werkstoff 1.4876 DIN	153	GY Werkstoff 2.4682 LN	1851
GY Thernon 4980 Vakumelt	123	GY Werkstoff 1.4898 DIN	148	GY Werkstoff 2.4778 DIN	1917
GY Thernon 4981	342	GY Werkstoff 1.4911 LN	511	GY Werkstoff 2.4779 DIN	1913
GY Tindur	53	GY Werkstoff 1.4914 LN	275	GY Werkstoff 2.4856 DIN	181
GY Tindur 1650	54	GY Werkstoff 1.4924 LN	261	GY Werkstoff 2.4856 DIN	673
GY Tindur 1875	55	GY Werkstoff 1.4930 LN	2	GY Werkstoff 2.4856	678
GY Tophet 75	1657	GY Werkstoff 1.4931 DIN	266	GY Werkstoff 2.4879 DIN	1700
GY Tophet 80A	1002	GY Werkstoff 1.4934 LN	258	GY Werkstoff 2.4951 DIN	1641
GY Tophet 90	1081	GY Werkstoff 1.4939 LN	289	GY Werkstoff 2.4951 DIN	1689
GY Turbotherm 1616M	340	GY Werkstoff 1.4943 LN	309	GY Werkstoff 2.4952 DIN	1025
GY Turbotherm 20 CO 20	601	GY Werkstoff 1.4944 LN	92	GY Werkstoff 2.4964 LN	1824
GY Turbotherm 20 CO 50	1834	GY Werkstoff 1.4944 LN	100	GY Werkstoff 2.4964 LN	1844
GY Turbotherm 2055 CO	1084	GY Werkstoff 1.4944 LN	110	GY Werkstoff 2.4967 DIN	1843
GY Turbotherm 2075	1008	GY Werkstoff 1.4949 DIN	159	GY Werkstoff 2.4969 DIN	978
GY Turbotherm 2080	1683	GY Werkstoff 1.4957 LN	544	GY Werkstoff 2.4972 DIN	1543
GY Turbotherm KW 20 MV	272	GY Werkstoff 1.4971 DIN	566	GY Werkstoff 2.4973 DIN	1032
GY Vaccutherm C263	749	GY Werkstoff 1.4971 DIN	596	GY Werkstoff 2.4975 DIN	152
GY Vaccutherm HX	1537	GY Werkstoff 1.4971 DIN	613	GY Werkstoff 2.4976 DIN	1023
GY Vaccutherm 5-34	273	GY Werkstoff 1.4974 LN	545	GY Werkstoff 2.4982 DIN	1099
GY Vaccutherm 5-38	283	GY Werkstoff 1.4974 LN	595	GY Werkstoff 2.4983 DIN	1171
GY Vaccutherm 6-18	410	GY Werkstoff 1.4977 DIN	563	GY Werkstoff 2.4989 DIN	1790
GY Vaccutherm 7-20	71	GY Werkstoff 1.4978 DIN	549	GY WF 100D	315
GY Vaccutherm 7-20	112	GY Werkstoff 1.4980 DIN	101	GY Witten DA 1525 LVA	80
GY Vaccutherm 718	768	GY Werkstoff 1.4980 DIN	108	GY Witten DA 2019	568
GY Vaccutherm 8-11	599	GY Werkstoff 1.4980 DIN	129	GY Witten DA 2019L	593
GY Vaccutherm 8-11H	559	GY Werkstoff 1.4984 LN	361	GY Witten DA 2020	564
GY Vaccutherm 8-13	1830	GY Werkstoff 2.4054 LN	944	GY Witten DA 2040	1842
GY Vaccutherm 8-13H	1786	GY Werkstoff 2.4600 DIN	1570	GY Witten DA 20401	1850
GY Vaccutherm 80	990	GY Werkstoff 2.4602 DIN	1594	GY Witten DA 2060 TI	977
GY Vaccutherm 9-1	1653	GY Werkstoff 2.4613 DIN	1533	GY Witten DA 2060 TIL	975
GY Vaccutherm 7-20	639	GY Werkstoff 2.4630 LN	1642	GY Witten DA 208 DL	1635
GY Vakumelt ATS 241-G(C)	890	GY Werkstoff 2.4630 LN	1648	GY Witten DA 2080	1694
GY Vakumelt ATS 270	775	GY Werkstoff 2.4630 LN	1848	GY Witten DA 2080 TI	1024
GY Vakumelt ATS 281-G	1391	GY Werkstoff 2.4631 LN	982	GY Witten DA 2080 TIL	904
GY Vakumelt ATS 290-G(C)	1430	GY Werkstoff 2.4631 LN	1020	IT AT30	183
GY Vakumelt ATS 331-G(C)	746	GY Werkstoff 2.4631 LN	1027	IT Chromax	429
GY Vakumelt ATS 340-G(C)	893	GY Werkstoff 2.4632 LN	976	JA G 4901	1929
GY Vakumelt ATS 361-G(C)	1175	GY Werkstoff 2.4632 LN	1062	JA G 4903	1930
GY Vakumelt ATS 381-G(C)	1379	GY Werkstoff 2.4632 LN	1072	JA G 4904	1931
GY Vakumelt ATS 385 LC-G	1240	GY Werkstoff 2.4634 LN	1323	JA NCF 2	184
GY Vakumelt ATS 391-G(C)	1371	GY Werkstoff 2.4636 LN	1418	JA NCF 2H	157
GY Vakumelt 380-G (Cast)	1289	GY Werkstoff 2.4650 LN	744	JA Nemicle	252
GY Ventos 4952 Vakumelt	1010	GY Werkstoff 2.4654 LN	970	JA emicle C	253
GY Ventos 4631	1026	GY Werkstoff 2.4662 LN	712	JA Nemicle F	254
GY Ventos 4969 Vakumelt	1085	GY Werkstoff 2.4665 LN	1495	JS JS SUH 661	600
GY Ventos 4971	567	GY Werkstoff 2.4668 LN	771	JS JS SUH 661	602
GY Werkstoff 1.4790 DIN	766	GY Werkstoff 2.4670 LN	1451	PO PN 4H14N14W2N	322
GY Werkstoff 1.4849 DIN	376	GY Werkstoff 2.4672 LN	726	PO PN 50H21G9N4	489
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SW Bofors RCT3	436	UK BS 1342/2 ANC 16 (C)	1630	UK BS 3146/3 VMA 7B (C)	1231
SW Bofors 2R046	29	UK BS 1346/2, ANC 11 (C)	656	UK BS 3146/3 VMA 7B (C)	1233
SW RSABS MH.03	1502	UK BS 1346/2, ANC 9 (Cast)	926	UK BS 3146/3 VMA 8(Cast)	1280
SW RSABS MH.04	852	UK BS 1346/2 ANC10(Cast)	1095	UK BS 3146/3 VMA 8(Cast)	1278
SW RSAB MH.05	1678	UK BS 1346/2,ANC13(C)	1739	UK BS 3146/3 VMA 9(Cast)	1252
SW RSABS MH.06	777	UK BS 2HR 1	998	UK BS 3146/3 VMA 9(Cast)	1168
SW RSABS MH.07	997	UK BS 2HR 2	1077	UK BS 3146/2	1926
SW RSABS MH.10	1066	UK BS 2HR 100	1703	UK BS 3146/3 (Cast)	1492
SW RSABS MH.14	1327	UK BS 2HR 202	1078	UK BS 3531 PT 1 (Cast)	1874
SW RSABS MH.16	702	UK BS 2HR 401	1000	UK C 130 (Cast)	868
SW RSABS MH.31 (Cast)	1480	UK BS 2HR 501	1096	UK C-242	1547
SW RSABS MH.45	1067	UK BS 2HR 502	1097	UK C 1023 (Cast)	1279
SW Sandvik Sanicro 71	697	UK BS 2HR 503	1080	UK DTD 5026	105
SW Sanicro 31	163	UK BS 2HR 504	1677	UK DTD 5037	503
SW UAB Stainless 851	271	UK BS 3072	1705	UK DTD 5057	1188
UK Alloy CSA-39	421	UK BS 3073	1706	UK DTD 703B	1639
UK Alloy MC-102	1603	UK BS 3074	1707	UK EPD 16" (Cast)	1471
UK Alloy 800	193	UK BS 3075	1708	UK EPK 36" (Cast)	1400
UK Alloy 800H	158	UK BS 3076	1709	UK EPK 55	884
UK ANC 10 (Cast)	1094	UK BS 3143/3 VMA 16A (C)	1223	UK EPK 57	972
UK ANC 11 (Cast)	655	UK BS 3143/3 VMA 3(Cast)	872	UK ERA HR 6W (Cast)	437
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UK BS HC 100 (Cast)	1704	UK BS 3146/2 ANC 15 (C)	1702	UK F.C.B.(T)	362
UK BS HC 210 (Cast)	1477	UK BS 3146/2 ANC 8(Cast)	1638	UK F.D.P	378
UK BS HC 201 (Cast)	1477	UK BS 3146/2 ANC 9(Cast)	925	UK F.V.S.	320
UK BS HC 202 (Cast)	1692	UK BS 3146/3 VMA 10 (C)	1306	UK Firth-Vickers 448 ST.	276
UK BS HC 203 (Cast)	1481	UK BS 3 VMA (C)	1285	UK Firth-Vickers 535 ST.	632
UK BS HC 204 (Cast)	1385	UK BS 3146/3 VMA 10 (C)	1285	UK FOX 33	434
UK BS HC 205 (Cast)	1605	UK BS 3146/3 VMA 11 (C)	1301		
UK BS HC 206 (Cast)	1606	UK BS 3146/3 VMA 12 (C)	1375		
UK BS HR 3	1328	UK BS 3146/3 VMA 12 (C)	1381	UK G.2	311
UK BS HR 4	1415	UK BS 3146/3 VMA 13 (C)	795	UK G.4	462
UK BS HR 5	1679	UK BS 3146/3 VMA 13 (C)	780	UK G.9	466
UK BS HR 6	1503	UK BS 3146/3 VMA 14 (C)	1365	UK G.18B	520
UK BS HR 10	732	UK BS 3146/3 VMA 15 (C)	1363	UK G.18B	646
UK BS HR 11	212	UK BS 3146/3 VMA 15 (C)	1403	UK G.19 (Cast)	647
UK BS HR 40	1847	UK BS 3146/3 VMA 16A(C)	1215	UK G.21	465
UK BS HR 51	114	UK BS 3146/3 VMA 16B(C)	1224	UK G.32	1900
UK BS HR 52	115	UK BS 3146/3 VMA 16B(C)	1216	UK G.34 (Cast)	1902
UK BS HR 53	703	UK BS 3146/3 VMA 2(Cast)	1469	UK G.39 (Cast)	1680
UK BS HR 201	999	UK BS 3146/3 VMA 3(Cast)	1135	UK G.42	622
UK BS HR 203	1675	UK BS 3146/3 VMA 4(Cast)	1749	UK G.42B	623
UK BS HR 204	1504	UK BS 3146/3 VMA 4(Cast)	1856	UK G.42B	624
UK BS HR 206	733	UK BS 3146/3 VMA 5(Cast)	715	UK G.44 (Cast)	1131
UK BS HR 240	1846	UK BS 3146/3 VMA 5(Cast)	728	UK G.54 (Cast)	1682
UK BS HR 251	314	UK BS 3146/3 VMA 6 C (C)	1397	UK G.55 (Cast)	1149
UK BS HR 402	1079	UK BS 3146/3 VMA 6A (C)	1454	UK G.63	1627
UK BS HR 403	1676	UK BS 3146/3 VMA 6A (C)	1424	UK G.64 (Cast)	1475
UK BS HR 404	704	UK BS 3146/3 VMA 6B (C)	1453	UK G.67 (Cast)	1474
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UK G.73 (Cast)	1310	UK M-22 (Cast)	1445	UK Nimonic Alloy 101	971
UK G. 76 (Cast)	862	UK MC-102	1604	UK Nimonic Alloy 105	1341
UK G. 82	1194	UK Multi-Alloy	1608	UK Nimonic Alloy 110	1387
UK G. 83	1184	UK Nimocast Alloy 75 (C)	669	UK Nimonic Alloy 115	1412
UK G.84 (Cast)	1406	UK Nimocast Alloy 80 (C)	927	UK Nimonic Alloy 118	1342
UK G.85	1052	UK Nimocast ALLOY 90 (C)	892	UK Nimonic Alloy 118	1345
UK G.87	1901	UK Nimocast C-242 (Cast)	657	UK Nimonic Alloy 263	729
UK G.94 (Cast)	1437	UK Nimocast MC 57 (Cast)	875	UK Nimonic Alloy 901	700
UK G. 95	1154	UK Nimocast MC 58 (Cast)	1343	UK Nimonic Alloy 942	654
UK G. 101	661	UK Nimocast PD 16 (Cast)	1472	UK Nimonic B	922
UK G. 103	1511	UK Nimocast PD21 (Cast)	1486	UK Nimonic C	879
UK G.104 (Cast)	1462	UK Nimocast PE10 (Cast)	1691	UK Nimonic CB (Cast)	923
UK GB.18	524	UK Nimocast PK 36 (Cast)	1401	UK Nimonic CC (Cast)	921
H. R. Crown Max	458	UK Nimocast PK24 (Cast)	1384	UK Nimonic CF (Cast)	1620
UK H.46	463	UK Nimocast 235D (Cast)	1468	UK Nimonic C75 (Cast)	671
UK H.48	447	UK Nimocast 242 (Cast)	1549	UK Nimonic F	1681
UK H.53	644	UK Nimocast 257 (Cast)	874	UK Nimonic MC 57 (Cast)	876
UK H.58	645	UK Nimocast 258 (Cast)	1344	UK Nimonic PE 7	506
UK H.59	464	UK Nimocast 263 (Cast)	741	UK Nimonic PK50	968
UK Hecla E.M. 20	536	UK Nimocast 713 (Cast)	1479	UK Nimonic 120	1321
UK Hecla E.M.35(C)(Cast)	535	UK Nimocast 713LC (Cast)	1478	UK Nimonic 80A	980
UK Hecla H.G.T.4	6	UK Nimocast 713V (Cast)	1448	UK Nimonic 90	1057
UK Hecla M.M. 20	618	UK Nimocast 738 (Cast)	1219	UK R.20	468
UK Hecla M.M.35(C)(Cast)	617	UK Nimocast 738LC (Cast)	1220	UK R.22 (Cast)	470
UK IN-519 (Cast)	446	UK Nimocast 738LC (Cast)	1493	UK R.45	469
UK IN 587	885	UK Nimocast 739 (Cast)	1109	UK R.47	467
UK IN 597	973	UK Nimocast 80 (Cast)	920	UK Rex 326D	636
UK IN-657 (Cast)	460	UK Nimocast 90 (Cast)	883	UK Rex 400	796
UK IN-939 (Cast)	509	UK Nimoloy ALLOY PK37	895	UK Rex 78	318
UK Incoloy Alloy MA956**	1	UK Nimoloy PK 37	896	UK Ross Vac 29 (Cast)	1068
UK Inconel Alloy MA754**	711	UK Nimonic Alloy C242(C)	1548	UK Ross Vac 42 (Cast)	1157
UK Jessop G.18B	521	UK Nimonic Alloy C263	713	UK Ross Vac 45 (Cast)	984
UK Jessop G.19 (Cast)	533	UK Nimonic Alloy PE 11	502	UK Ross Vac 52 (Cast)	1873
UK Jessop G.32	1793	UK Nimonic Alloy PE11	870	UK Ross Vac 53 (Cast)	1254
UK Jessop G.34 (Cast)	1903	UK Nimonic Alloy PE13	1510	UK Ross Vac 54 (Cast)	1637
UK Jessop G.39 (Cast)	1695	UK Nimonic Alloy PE16	902	UK Ross Vac 58 (Cast)	1459
UK Jessop G.42B	625	UK Nimonic Alloy PK25	1152	UK Ross Vac 83 (Cast)	1737
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UK Jessop R-22	454	UK Nimonic Alloy PK33	1187	UK G.2	312
UK Jessop-SAVILLE G.46	257	UK Nimonic Alloy 58 (C)	1422	UK SEL 1 (Cast)	1302
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UK Jessop-SAVILLE G.84(c)	1407	UK Nimonic Alloy 80	798	UK Nimonic Alloy 120	1308
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UK UCAR Alloy C-263	731	UK BS 3146/3 VMA 7A (C)	1258	UR GOST-EI926	1928
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UK UCAR Alloy IN-100 (C)	1370	UR GOST-EI435	1654	UR GOST-EP109	1388
UK UCAR Alloy IN-102	721	UR GOST-EI435	1673	UR GOST-EP151	924
UK UCAR Alloy IN-625	695	UR GOST-EI437	815	UR GOST-EP199	1138
UK UCAR Alloy IN-700	1265	UR GOST-EI437A	803	UR GOST-EP202	908
UK UCAR Alloy IN-722	860	UR GOST-EI437A	994	UR GOST-EP220	1283
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UK UCAR Alloy IN-792 (C)	1205	UR GOST-EI437R	817	UR GOST-EP454	1314
UK UCAR Alloy M-21	1390	UR GOST-EI444	861	UR GOST-EP487	906
UK UCAR Alloy M-22	1449	UR GOST-EI445	992	UR GOST-EP487	911
UK UCAR Alloy M-252	651	UR GOST-EI445R	886	UR GOST-EP539	1155
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US ANSI H34.15 (Hast. N)	696	US ASTM B 333	169	US Carpenter Lepelloy	24
US ANSI H34.19 (inc. 625)	679	US ASTM B 334	1559	US Carpenter Lepelloy C	5
US ANSI H34.20 (inc. 625)	680	US ASTM B 335	1586	US Carpenter M-252	1116
US ANSI H34.21 (inc. 800)	717	US ASTM B 336	1552	US Carpenter Meltrol 5615	33
US ANSI H34.23 (inc. 800)	190	US ASTM B 366	1587	US Carpenter N-155	591
US ANSI H34.24 (inc. 800)	191	US ASTM B 366, GR. WPHC	1588	US Carpenter Pyromet 31	213
US ANSI H34.27 (inc. 102)	718	US ASTM B 366, Grade WPHB	170	US Carpenter Pyromet 41	1033
US ANSI H34.28 (inc. 102)	719	US ASTM B 408	1553	US Carpenter Pyromet 102	723
US ANSI H34.39 (inc. 800)	187	US ASTM B 409	1527	US Carpenter Pyromet 80A	981
US ANSI H34.40 (inc. 800)	189	US ASTM B 423	171	US Carpenter Pyromet 88	653
US ANSI H34.41 (inc. 800)	188	US ASTM B 424	172	US Carpenter Pyromet 90	1059
US ANSI H34.42 (inc. 800)	185	US ASTM B 425	59	US Carpenter Pyromet 625	685
US Armco A-286	97	US ASTM B 435	57	US Carpenter Pyromet 680	1524
US ASME SA637	840	US ASTM B 436	1525	US Carpenter Pyromet 718	752
US ASME SB163	61	US ASTM B 443	248	US Carpenter Pyromet 860	877
US ASME SB163	176	US ASTM B 444	689	US Carpenter Pyromet 901	143
US ASME SB335	1558	US ASTM B 445	690	US Carpenter PyrometX750	823
US ASME SB407	177	US ASTM B 446	725	US Carpenter V-57	133
US ASME SB409	178	US ASTM B 514	691	US Carpenter Waspalloy	953
US ASME SB424	62	US ASTM B 515	173	US Carpenter X-751	899
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US CM L-605	1812	US Gamma CB*	324	US HM-30	1191
US CM-N-155	589	US Gannaloy	208	US HM-30	366
US CM-R41	1042			US Howmet Standard NO. 6	1863
US CM-Waspaloy	955	US GE ALLOY J-1500	1120	US Howmet Super-6 (Cast)	1845
US CM-7 (Cast)	1713	US GE ALLOY 41-AISI 683	1050	US Howmet-25	1815
US CMCN	628	US GE-B-129	1470	US HTX	487
US CMN	491	US GE-B-129	1485	US I-1360 (Cast)	1464
US Conservaloy*	48	US GMR-235 (Cast)	1259	US I-1360 (Cast)	1476
US Cosint 1000	1377	US GMR-235D (Cast)	1230	US I-336	1906
US CRM-15D (Cast)	243	US GMR-236 (Cast)	1207	US IN 100 (Cast)	1373
US CRM-17D (Cast)	242	US Greek Ascoloy-AISI 615	32	US IN 728 (Cast)	1444
US CRM-18D (Cast)	251	US Hastelloy Alloy C-276	1572	US IN-102	722
US CRM-6D (Cast)	245	US Hastelloy Alloy R-235	1193	US IN-162	1446
US Croloy 15-15N	355	US Hastelloy Alloy X (C)	1512	US IN-597	1055
US Croloy 19-9DL	397	US Hastelloy Alloy X (W)	1515	US IN-643 (Cast)	1710
US Crucible HNM	367	US Hastelloy Alloy X-280	1539	US IN-731 (Cast)	1362
US Crucible M-252	1126	US Hastelloy Alloy 500	1161	US IN-738 (Cast)	1214
US Crucible M-308*	138	US Hastelloy Alloy 700	1268	US IN-792 (Cast)	1206
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US Crucible Waspaloy	1720	US Hastelloy B-282	1618	US Inconel Alloy 425*	209
US Crucible WF-11	1813	US Hastelloy C (W),(C)	1578	US Inconel Alloy 601	931
US CSA	377	US Hastelloy C-276	1577	US Inconel Alloy 625	683
US D-979	222	US Hastelloy C4	1628	US Inconel Alloy 671	1701
US DCM Alloy (Cast)	1320	US Hastelloy F	247	US Inconel Alloy 702	1208
US Discaloy	295	US Haynes Alloy No. 713C	1435	US Inconel Alloy 703	1262
US Discaloy 24	296	US Haynes Alloy No. 150	1792	US Inconel Alloy 705	1237
US Eastern Alloy 1030	941	US Haynes Alloy No. 152	1865	US Inconel Alloy 706	662
US Eastern Alloy 536	1530	US Haynes Alloy No. 188	1764	US Inconel Alloy 707	1239
US Eastern Alloy 625	674	US Haynes Alloy No. 25	1807	US Inconel Alloy 708	1238
US Eastern No. A-286	75	US Haynes Alloy No. 25	1810	US Inconel Alloy 709	1244
US Eastern No. N-155	590	US Haynes Alloy No. 56	534	US Inconel Alloy 710	1246
US Eastern No. 530	1590	US Haynes Alloy No. 96*	616	US Inconel Alloy 711	1245
US Eastern No. 605	1814	US Haynes Alloy No. 99	510	US Inconel Alloy 713C (Cast)	1428
US Eastern No. 702	1209	US Haynes Alloy No. R-41	1037	US Inconel Alloy 713LC (Cast)	1396
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US Eastern No. 801	426	US Haynes Alloy 30(Cast)	1759	US Inconel Alloy 721	1632
US Eastern No. 41	1041	US Haynes Alloy 31(Cast)	1728	US Inconel Alloy 722	858
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US Firth 16-25-6	349	US Haynes Stellite 21(C)	1879	US Inconel Alloy 802	205
US Firth 19-9DL	401	US Haynes Stellite 23*	1889	US Inconel Alloy 804	154
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US Inconel Alloy T*	423	US Lescalloy A-286	74	US N 115	1414
US Inconel X	841	US Lescalloy D-979	228	US N-153	532
US Inconel Alloy X-550	878	US Lescalloy V-57	132	US N-154	619
US Incoloy Alloy T*	423	US Lescalloy Waspaloy	956	US N-155 (Cast)	586
US Incoloy (Renamed 800)	166	US Lescalloy X-750	842	US N-155 Multimet (Cast)	597
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US Incoloy Alloy 801	425	US Lescalloy 718 VACARC	754	US NA-22H (Cast)	457
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US Incoloy Alloy 825	56	US M-M 0011 Alloy (Cast)	1359	US Nickelvac A-286	76
US Incoloy Alloy 901	140	US M-M 002 Alloy (Cast)	1364	US Nickelvac L-605	1816
US Incoloy Alloy 901	698	US M-M 004 Alloy (Cast)	1393	US Nickelvac N-155	592
US Incoloy 903	504	US M-203	1714	US Nickelvac W	681
US Incoloy Alloy 904	493	US M-204	1757	US Nickelvac 90	1058
US Inconel Alloy 425*	209	US M-205	1718	US Nickelvac 625	675
US Inconel Alloy 601	931	US M-252/AISI 689	1119	US Nickelvac X-750	824
US Inconel Alloy 625	683	US M-308*	136	US Nickelvac 901	144
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US Inconel Alloy 702	1208	US M-600	880	US Nirco 10	1711
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US Inconel Alloy 705	1237	US MAR-M Alloy (Cast)	1291	US Pandex Vac Arc	77
US Inconel Alloy 706	662	US MAR-M Alloy 200(Cast)	1404	US PDRL 102 (WRT)(Cast)	720
US Inconel Alloy 707	1239	US MAR-M Alloy 211(Cast)	1402	US PDRL-162 (Cast)	1447
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US Inconel Alloy 709	1244	US MAR-M Alloy 247(Cast)	1360	US PWA 1030	958
US Inconel Alloy 710	1246	US MAR-M Alloy 302(Cast)	1750	US Pyromet X-12	3
US Inconel Alloy 711	1245	US MAR-M Alloy 322(Cast)	1892	US Pyromet X-12	631
US Inconel Alloy 713C (Cast)	1428	US MAR-M Alloy 432(Cast)	1156	US Pyromet X-15	547
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US Inconel Alloy 717C	1489	US MAR-M Alloy 918	1805	US Pyromet X-751	900
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US J-1530	946	US MELNI 22	1276	US Pyromet 680 ,AISI 680	1540
US J-1570	1895	US MIL-JAN-W-562	820	US Pyromet 718	773
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US J-1650	1719	US MIL-N-24114 (SHIPS)	827	US Pyromet 860	508
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US S-497	546	US TRW 1800 (Cast)	1467	US WF-11	1808
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US S-588*	365	US TRW 2278 (Cast)	1441	US W1-52 (Cast)	1864
US S-590	550	US Turbaloys 13	214	US X-40 (Cast)	1733
US S-816 Alloy (Cast)	1775	US Udimet Waspaloy	954	US X-45 (Cast)	1746
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US SAE J467 (Lapelloy C)	8	US Udimet 630	1456	US 17-14 CuMo	325
US SAE J467 (Lapelloy)	25	US Udimet 700	1267	US 19-9 DL	396
US SAE J467 (W-545)	241	US Udimet 700	1298	US 19-90X	379
US SAE J467 (422)	22	US Udimet 710	1147	US 19-9WMo	418
US SAE J467 (422M)	14	US Udimet 718	753	US 19-9WX	135
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US SM-332 (Cast)	1893	US Unitemp EME	395	XX ISO 8 (Draft)	195
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Armo A-286		97	C-0034	Crucible M-308*	138	C-0042	Pyromet 860	219
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C-0065 Ross Vac 42 (Cast)	1157	C-0066 S-844*	1772	C-0068 Haynes Alloy 30(Cast)	1800
C-0065 Ross Vac 45 (Cast)	984	C-0066 Udimet Waspalloy	954	C-0068 Haynes Alloy 31(Cast)	1728
C-0065 Ross Vac 52(Cast)	1873	C-0066 Udimet 41,AISI 683	1039	C-0068 Haynes No. 713C	1432
C-0065 Ross Vac 53 (Cast)	1254	C-0066 Udimet 500	1159	C-0068 Haynes Stellite 7	1891
C-0065 Ross Vac 54 (Cast)	1637	C-0066 Udimet 520	1186	C-0068 Haynes Stellite No 21	1870
C-0065 Ross Vac 58 (Cast)	1459	C-0066 Udimet 625	684	C-0068 Haynes Stellite 21(C)	1879
C-0065 Ross Vac 83 (Cast)	1737	C-0066 Udimet 630	1456	C-0068 Haynes Stellite 7	1891
C-0065 VMA 14 (Cast)	1368	C-0066 Udimet 700	1267	C-0068 Haynes Stellite NO.23	1886
C-0066 A-286	96	C-0066 Udimet 700	1298	C-0068 Haynes Stellite NO.36	1748
C-0066 AF-183*	474	C-0066 Udimet 710	1147	C-0068 Haynes Stellite NO.6B	1862
C-0066 AF-71*	472	C-0066 Udimet 718	753	C-0068 HE-1049 (Cast)	1724
C-0066 AF-94*	1923	C-0066 Udimet 720	1148	C-0068 N-153	532
C-0066 Allegheny A-286	98	C-0066 Udimet 90	1061	C-0068 N-154	619
C-0066 Allegheny AF-183*	475	C-0066 Udimet 901	142	C-0068 N-155 Multimet (Cast)	597
C-0066 Allegheny AF-71*	471	C-0066 V-36	1769	C-0068 N-155 Multimet Alloy	572
C-0066 Allegheny D-979	227	C-0066 V-36	1773	C-0068 N-156	620
C-0066 Allegheny Ludlum 901	147	C-0066 V-57	131	C-0068 Stellite X-40 (Cast)	1736
C-0066 Allegheny M-252	1128	C-0066 205	484	C-0069 M-M 0011 Alloy (Cast)	1359
C-0066 Allegheny Metal S-590	554	C-0066 216	482	C-0069 M-M 002 Alloy (Cast)	1364
C-0066 Allegheny Metal S-816	1776	C-0066 418	11	C-0069 M-M 004 Alloy (Cast)	1393
C-0066 Allegheny N-155	587	C-0066 419	9	C-0069 Mar-M Alloy (Cast)	1291
C-0066 Allegheny R 41	1036	C-0067 Alloy 713C (W) (Cast)	1433	C-0069 Mar-M Alloy 200(Cast)	1404
C-0066 Allegheny S-816(B (C)	1723	C-0067 Alloy 713LC (Cast)	1395	C-0069 Mar-M Alloy 211(Cast)	1402
C-0066 Allegheny V-36	1771	C-0067 I-1360 (Cast)	1476	C-0069 Mar-M Alloy 246(Cast)	1367
C-0066 Allegheny 19-9DL	403	C-0067 IN 100 (Cast)	1373	C-0069 Mar-M Alloy 247(Cast)	1360
C-0066 Allegheny 19-9DX	380	C-0067 IN 728 (Cast)	1444	C-0069 Mar-M Alloy 302(Cast)	1750
C-0066 Allegheny 418 Special	12	C-0067 IN-102	722	C-0069 Mar-M Alloy 322(Cast)	1892
C-0066 Altemp A-286	72	C-0067 IN-162	1446	C-0069 Mar-M Alloy 432(Cast)	1156
C-0066 Altemp D-979	223	C-0067 IN-597	1055	C-0069 Mar-M Alloy 509(Cast)	1855
C-0066 Altemp M-252	1129	C-0067 IN-643 (Cast)	1710	C-0069 Mar-M Alloy 918	1805
C-0066 Altemp S-590	555	C-0067 IN-731 (Cast)	1362	C-0069 SM 302 (Cast)	1751
C-0066 Altemp S-816	1777	C-0067 IN-738 (Cast)	1214	C-0069 SM-322 (Cast)	1893
C-0066 Altemp V-36	1770	C-0067 IN-792 (Cast)	1206	C-0072 AF-2-1D	1319
C-0066 Altemp 19-9DL	402	C-0067 IN-853	1056	C-0072 AF2-1DA	1317
C-0066 Altemp 19-9DX	381	C-0067 Incoloy (Renamed 800)	166	C-0072 Alloy L-605	1811
C-0066 AM 355,AISI 634(Wrt.)	44	C-0067 Incoloy Alloy 800	165	C-0072 Alloy M-308*	139
C-0066 Conservatory *	48	C-0067 Incoloy Alloy 800H	155	C-0072 Alloy N-155	588
C-0066 D-979	222	C-0067 Incoloy Alloy 801	425	C-0072 Alloy 19-9 WMO	419
C-0066 F-342	1409	C-0067 Incoloy Alloy 802	205	C-0072 Alloy 19-9DL	398
C-0066 G-157	864	C-0067 Incoloy Alloy 804	154	C-0072 Lapelloy, AISI 619	23

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C-0072 Uniloy 19-9DL	411	C-0067 Incoloy Alloy 901	140	C-0074 Nimocast PD 16 (Cast)	1472
C-0072 Uniloy 19-9DX	384	C-0067 Incoloy Alloy 901	698	C-0074 Nimocast PD21 (Cast)	1486
C-0072 Unitemp L-605	1817	C-0067 Incoloy Alloy T*	423	C-0074 Nimocast PE10 (Cast)	1691
C-0072 Unitemp A-286	79	C-0067 Incoloy Alloy 903	504	C-0074 Nimocast PK 36 (Cast)	1401
C-0072 Unitemp AF 1753	1105	C-0067 Incoloy Alloy 904	493	C-0074 NimocastPK24 (Cast)	1384
C-0072 Unitemp C-300	1218	C-0067 Inconel Alloy 425*	209	C-0074 Nimonic CF (Cast)	1620
C-0072 Unitemp EME	395	C-0067 Inconel Alloy 601	931	C-0074 Nimocast 235D (Cast)	1468
C-0072 Unitemp HN	650	C-0067 Inconel Alloy 671	1701	C-0074 Nimocast 242 (Cast)	1549
C-0072 Unitemp HX	1514	C-0067 Inconel Alloy 700	1266	C-0074 Nimocast 257 (Cast)	874
C-0072 Unitemp M-252	1117	C-0067 Inconel Alloy 702	1208	C-0067 Nimocast 258 (Cast)	1344
C-0072 Unitemp N-155	585	C-0067 Inconel Alloy 703	1262	C-0074 Nimocast 263 (Cast)	741
C-0072 Unitemp R-41	1043	C-0067 Inconel Alloy 705	1237	C-0074 Nimocast 713 (Cast)	1479
C-0072 Unitemp S-590	553	C-0067 Inconel Alloy 707	1239	C-0074 Nimocast 713LC (Cast)	1478
C-0072 Unitemp S-816	1778	C-0067 Inconel Alloy 708	1238	C-0074 Nimocast 713V (Cast)	1448
C-0072 Unitemp Wespeloy	957	C-0067 Inconel Alloy 709	1244	C-0074 Nimocast 738 (Cast)	1219
C-0072 Unitemp 1415 NW	36	C-0067 Inconel Alloy 710	1246	C-0074 Nimocast 738LC (Cast)	1220
C-0072 Unitemp 1430 MV	26	C-0067 Inconel Alloy	711	C-0074 Nimocast 738LC (Cast)	1493
C-0072 Unitemp 188	1762	1245		C-0074 Nimocast 739 (Cast)	1109
C-0072 Unitemp 19-9 W-MO	420	C-0067 Inconel Alloy 713C (Cast)	1428	C-0074 Nimocast 80 (Cast)	920
C-0072 Unitemp 19-9DL	399	C-0067 Inconel Alloy 713LC (Cast)	1396	C-0074 Nimocast 90 (Cast)	883
C-0072 Unitemp 19-9WX	424	C-0067 Inconel Alloy 717C	1489	C-0074 Nimonic Alloy PK37	895
C-0072 Unitemp 212 *	52	C-0067 Inconel Alloy 718	1632	C-0074 Nimonic Alloy PK 37	896
C-0072 19-9DL	396	C-0067 Inconel Alloy 721	858	C-0074 Nimonic Alloy C242(C)	1548
C-0072 19-9DX	379	C-0067 Inconel Alloy 722	858	C-0074 Nimonic Alloy C263	713
C-0072 19-9WX	135	C-0067 Inconel Alloy 751	898	C-0074 Nimonic Alloy PE 11	502
C-0073 Discaloy	295	C-0067 Inconel Alloy X	841	C-0074 Nimonic Alloy PE11	870
C-0073 Discaloy 24	296	C-0067 Inconel Alloy X-550	878	C-0074 Nimonic Alloy PE13	1510
C-0073 K-42B	494	C-0067 Inconel Alloy X-750	822	C-0074 Nimonic Alloy PE16	902
C-0073 Kromarc 55	479	C-0067 Kinsalloy *	1491	C-0074 Nimonic Alloy PK25	1152
C-0073 Kromarc 58	473	C-0067 NI-O-NEL (Former Name)	65	C-0074 Nimonic Alloy PK31	716
C-0073 Microtung (Cast)	1347	C-0067 RL-35-100 * (Cast)	246	C-0074 Nimonic Alloy PK33	1187
C-0073 Nivco 10	1711	C-0068 Alloy 422-19	1804	C-0074 Nimonic Alloy 100*	1419
C-0073 Refractaloy B	452	C-0068 Alloy 6059	1758	C-0074 Nimonic Alloy 101	971
C-0073 Refractaloy 26	540	C-0068 Alloy 61	1890	C-0074 Nimonic Alloy 105	1341
C-0073 Refractaloy 70	627	C-0068 Hastelloy Alloy C-276	1572	C-0074 Nimonic Alloy 110	1387
C-0073 Refractaloy 80	626	C-0068 Hastelloy Alloy R-235	1193	C-0074 Nimonic Alloy 115	1412
C-0073 W-545	234	C-0068 Hastelloy Alloy X (C)	1512	C-0074 Nimonic Alloy 118	1342
C-0073 Waspaloy A	951	C-0068 Hastelloy Alloy X (W)	1515	C-0074 Nimonic Alloy 118	1345
C-0073 Westinghouse W-545	235	C-0068 Hastelloy Alloy X-280	1539	C-0074 Nimonic Alloy 263	729
C-0074 EPD 16 * (Cast)	1471	C-0068 Hastelloy Alloy 500	1161	C-0074 Nimonic Alloy 58 (C)	1422
C-0074 EPK 36* (Cast)	1400	C-0068 Hastelloy Alloy 700	1268	C-0074 Nimonic Alloy 75	1668
C-0074 Incoloy Alloy MA956**	1	C-0068 Hastelloy B (W), (C)	1551	C-0074 Nimonic Alloy 80	798
C-0074 Inconel Alloy MA754**	711	C-0068 Hastelloy B-282	1618	C-0074 Nimonic Alloy 80A	985
C-0074 N 115	1414	C-0068 Hastelloy C (W), (C)	1578	C-0074 Nimonic Alloy 81	1111
C-0074 Nimocast Alloy 75 (C)	669	C-0068 Hastelloy C4	1628	C-0074 Nimonic Alloy 86	1498
C-0074 Nimocast Alloy 80 (C)	927	C-0068 Hastelloy F	247	C-0074 Nimonic Alloy 90	1069
C-0074 Nimocast Alloy 90 (C)	892	C-0068 Haynes Alloy NO. 713C	1435	C-0074 Nimonic Alloy 901	700
C-0074 Nimocast C-242 (Cast)	657	C-0068 Haynes Alloy NO. 150	1792	C-0074 Nimonic Alloy 91	897
C-0074 Nimocast MC 57 (Cast)	875			C-0074 Nimonic Alloy 93	1054
				C-0074 Nimonic Alloy 942	654

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C-0074 Nimonic B	922	C-0078 Rene 63	1247	C-0089 16-25-6	347
C-0074 Nimonic C	879	C-0078 Rene 77	1297	C-0090 AlResist 13 (Cast)	1715
C-0074 Nimonic CB (Cast)	923	C-0078 Rene 80	1253	C-0090 AlResist 213 (Cast)	1716
C-0074 Nimonic CC (Cast)	921	C-0078 Rene 85	1354	C-0090 AlResist 215 (Cast)	1717
C-0074 Nimonic C75 (Cast)	671	C-0078 Rene 95	1227	C-0092 B-1900 Alloy (Cast)	1460
C-0074 Nimonic F	1681	C-0078 SEL 15 (Cast)	1355	C-0092 B-1910 (Cast)	1458
C-0074 Nimonic MC 57 (Cast)	876	C-0078 Turbalooy 13	214	C-0092 NX-188 (Cast)	1490
C-0074 Nimonic PE 7	506	C-0078 X-40 (Cast)	1733	C-0092 Thetaloy (Cast)	1501
C-0074 Nimonic PK50	968	C-0078 X-45 (Cast)	1746	C-0093 C 1023 (Cast)	1279
C-0074 Nimonic 120	1321	C-0078 X-50 (Cast)	1896	C-0093 C 130 (Cast)	868
C-0074 Nimonic Alloy 120	1308	C-0078 X-63 (Cast)	1924	C-0093 C-242	1547
C-0074 Nimonic 80A	980	C-0079 CM L-605	1812	C-0094 F.C.B.(T)	362
C-0074 Nimonic 90	1057	C-0079 CM L-605	1812	C-0094 F.D.P.	378
C-0074 Sel 1 (Cast)	1302	C-0079 PDRL 102 (Wrt)/(Cast)	720	C-0094 F.V.S.	320
C-0074 Wiggins Alloy C263	727	C-0079 PDRL-162 (Cast)	1447	C-0094 Firth-Vickers 448 ST.	276
C-0075 TRW MOD 1900 (Cast)	1440	C-0079 PDRL-163 (Cast)	1439	C-0094 Firth-Vickers 535 ST.	632
C-0075 TRW NASA I-5	1443	C-0080 Walmet WI-52 (Cast)	1866	C-0094 H.R. Crown Max	458
C-0075 TRW NASA II-B	1304	C-0080 WI-52 (Cast)	1864	C-0094 Rex 326D	636
C-0075 TRW NASA III-D	1115	C-0083 Firth A-286	73	C-0094 Rex 400	796
C-0075 TRW NASA III-G	1305	C-0083 Firth Disceloy	297	C-0094 Rex 78	318
C-0075 TRW NASA IV-Y (Cast)	1356	C-0083 Firth Greek Ascology	34	C-0094 326	634
C-0075 TRW NASA VI A (Cast)	1357	C-0083 Firth 16-25-6	349	C-0094 337	635
C-0075 TRW 1800 (Cast)	1467	C-0083 Firth 19-9DL	401	C-0094 448	256
C-0075 TRW 1900 (Cast)	1442	C-0083 Firth 19-9DX	383	C-0094 467	317
C-0075 TRW 2278 (Cast)	1441	C-0083 Greek Ascology, AISI 61	32	C-0095 Fox 33	434
C-0075 ANV-300 (Cast)	1408	C-0084 Lescalloy A-286	74	C-0095 Jethete M.160	13
C-0076 G.LK4YA (Cast)	1756	C-0084 Lescalloy D-979	228	C-0097 Stellite 8 (Cast)	1925
C-0076 G.LK68YA (Cast)	1755	C-0084 Lescalloy V-57	132	C-0098 EME	394
C-0076 G.VZh36-L3 (Cast)	1927	C-0084 Lescalloy Waspaloy	956	C-0099 CRM-15D (Cast)	243
C-0076 VL7-45U (Cast)	244	C-0084 Lescalloy X-750	842	C-0099 CRM-17D (Cast)	242
C-0077 RA-333	1611	C-0084 Lescalloy 422 S.S.	19	C-0099 CRM-18D (Cast)	251
C-0078 Alloy M-252, AISI 689	1118	C-0084 Lescalloy 901	141	C-0099 CRM-60 (Cast)	245
C-0078 Astroloy	1350	C-0084 Lescalloy 95	1228	C-0102 Arc 1628	1568
C-0078 FSX-414 (Cast)	1798	C-0084 MP159	495	C-0102 Arc 6015	1592
C-0078 GE Alloy J-1500	1120	C-0084 Pandex VAC ARC	77	C-0102 ATG B	525
C-0078 GE Alloy 41, AISI 683	1050	C-0085 DCM Alloy (Cast)	1320	C-0102 ATG C1	769
C-0078 GE-B-129	1485	C-0085 Vitallium (Cast)	1877	C-0102 ATG E	1531
C-0078 I-1360 (Cast)	1464	C-0086 IN587	885	C-0102 ATG E2	676
C-0078 J-1300	137	C-0086 IN 597	973	C-0102 ATG F	844
C-0078 J-1500	818	C-0086 IN-519(Cast)	446	C-0102 ATG M	435
C-0078 M-203	1714	C-0086 IN-657 (Cast)	460	C-0102 ATG M2	1382
C-0078 M-204	1757	C-0086 IN-939 (Cast)	509	C-0102 ATG R	1646
C-0078 M-205	1718	C-0086 M-22 (Cast)	1445	C-0102 ATG S3	987
C-0078 M-600	880	C-0086 MC-102	1604	C-0102 ATG S3	1018
C-0078 Rene Y	M-813	C-0087 Croloy 19-9DL	397	C-0102 ATG S4	1070
C-0078 Rene 100	1376	C-0088 MO-RE 2 (Cast)	459	C-0102 ATG S8	1263
C-0078 Rene 41, AISI 683	1034	C-0089 Timkin 16-15-6	481	C-0102 ATG WO	742
		C-0089 Timkin 16-25-6	348	C-0102 ATG W1	942

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C-0102 ATG W3	1286	C-0108 GMR-235 (Cast)	1259	C-0127 Witten DA 2060 TI	977
C-0102 ATG W4	1144	C-0108 GMR-235D (Cast)	1230	C-0127 Witten DA 2060 TIL	975
C-0102 ATG X	611	C-0108 GMR-236 (Cast)	1207	C-0127 Witten DA 208DL	1635
C-0102 ATG XX	556	C-0109 Joslyn Stainless 615	35	C-0127 Witten DA 2080	1694
C-0102 ATG 33	1609	C-0113 Stellite X-40	1745	C-0127 Witten DA 2080 TI	1024
C-0102 ATGS 65	1324	C-0113 Stellite 6	1894	C-0127 Witten DA 2080 TIL	904
C-0102 ATV R	51	C-0113 Stellite 7	1880	C-0129 Virgo 74	1591
C-0102 ATV S	229	C-0113 Stellite 8	1881	C-0129 Virgo 86 (Cast)	1731
C-0102 ATV S7	505	C-0114 Shanigan X	438	C-0129 Virgo 87B (Cast)	1466
C-0102 ATVS	218	C-0118 Koppers K-66 (Cast)	1732	C-0132 ASR1	537
C-0102 ATVS MO	106	C-0121 Pyrotherm G UMCO 50 (C)	1920	C-0132 ASR2	515
C-0102 ATVS 2	302	C-0121 Pyrotherm G UMCO 51(C)	1904	C-0132 ATV-3	316
C-0102 ATVS 7	498	C-0121 Pyrotherm UMCO 50	1921	C-0135 Adnic 240 D.T	516
C-0102 ATVS 7 MO	542	C-0121 Pyrotherm UMCO 51	1905	C-0135 Adnic 265D	1617
C-0102 Imphy A.T.G.	1619	C-0122 Chroman B2 MO	483	C-0135 Alacrite X.D.H	1833
C-0102 Nicral C	179	C-0122 Contrecid B7MO	478	C-0135 Aubert-Duval X20T	439
C-0102 Nicral C	196	C-0122 Durotherm 600	496	C-0135 EA 1	1007
C-0102 Nicraa CT	430	C-0122 Durotherm 700	507	C-0135 Noxis 4	519
C-0102 Nicral C2	156	C-0123 Cromadur	477	C-0135 PER 1	1614
C-0102 Nicral K 25	66	C-0123 Trinidur	53	C-0135 PER 13	1484
C-0102 Nicral ZA	934	C-0123 Trinidur 1650	54	C-0135 PER 2	1615
C-0103 Multi-Alloy	1608	C-0123 Trinidur 1875	55	C-0135 PER 2B	1607
C-0104 Marwader F11	279	C-0123 WF 100D	315	C-0135 PER 2U	1130
C-0105 Antinit 1525	122	C-0124 Alloy 42-C	621	C-0135 PER 2X	988
C-0105 Turbothermal 1616M	340	C-0125 ATS	358	C-0135 PER 2Y	1100
C-0105 Turbothermal 20 CO 20	601	C-0125 ATS 2	330	C-0135 PER 20N	846
C-0105 Turbothermal 20 CO 50	1834	C-0125 ATS-101	531	C-0135 PER 263	730
C-0105 Turbothermal 2055 CO	1084	C-0125 ATS-103	562	C-0135 PER 3	1494
C-0105 Turbothermal 2075	1008	C-0125 ATS-105	538	C-0135 PER 3	1335
C-0105 Turbothermal 2080	1683	C-0125 ATS-113	1768	C-0135 Pyrad 44 D	701
C-0105 Turbrotherm KW 20 MV	272	C-0125 ATS-15	332	C-0135 SC 2108	339
C-0106 ERA H.R. 6W (Cast)	437	C-0125 ATS-26	331	C-0135 X 203 (W) ₁ (C)	638
C-0106 G.42	622	C-0125 ATS-360	1322	C-0135 X.N 26 T.W	121
C-0106 Hecla E.M. 20	536	C-0125 ATS-390	1346	C-0135 XN 20 C (W) ₁ (C)	637
C-0106 HECLA E.M.35(C) (Cast)	535	C-0125 ATS-6	364	C-0135 XSH	1860
C-0106 Hecla H.G.T.4	6	C-0126 Pyrodur CO 50	1914	C-0135 X20T2	440
C-0106 Hecla M.M. 20	618	C-0126 Pyrodur CO51	1910	C-0138 Turbothermal 12	356
C-0106 Hecla M.M.35(C)(Cast)	617	C-0126 Pyrodur 30 CN 38 NB	373	C-0138 Turbothermal 1300-10	530
C-0107 Eastern Alloy 1030	941	C-0126 Pyrodur 40 CM 38	369	C-0138 Turbothermal 15M	42
C-0107 Eastern Alloy 536	1530	C-0126 Thermodur CMW 11	263	C-0138 Turbothermal 1525 T	125
C-0107 Eastern Alloy 625	674	C-0126 Thermodur 30CN24 24NB	442	C-0138 Turbothermal 1613 NB	360
C-0107 Eastern NO. A-286	75	C-0126 Thermodur 50 CNW 30 5	1697	C-0138 Turbothermal 1613MV	359
C-0107 Eastern NO. N-155	590	C-0127 Ventos 4631	1026	C-0138 Turbothermal 1616M	357
C-0107 Eastern NO. 530	1590	C-0127 Ventos 4971	567	C-0138 Turbothermal 20 CO 45	1788
C-0107 Eastern NO. 605	1814	C-0127 Witten DA 1525 LVA	80	C-0138 Turbothermal 20 M	30
C-0107 Eastern NO.702	1209	C-0127 Witten DA 2019	568	C-0138 Turbothermal 20 MV	28
C-0107 Eastern NO. 718	756	C-0127 Witten DA 2019L	568	C-0138 Turbothermal 20 MVNB	7
C-0107 Eastern NO. 750	843	C-0127 Witten DA 2020	564	C-0138 Turbothermal 20 MVW	27
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C-0138 Turbotherm 25 CO 60	1861	C-0147 Jessop G.188	521	C-0151 Vakumelt ATS 241-C(C)	890
C-0138 Turbotherm 35CO-20	548	C-0147 Jessop C.19 (Cast)	533	C-0151 Vakumelt ATS 270	775
C-0139 Styria RKW	43	C-0147 Jessop C.32	1793	C-0151 Vakumelt ATS 281-C	1391
C-0141 Poldi AKCM	643	C-0147 Jessop G.34 (Cast)	1903	C-0151 Vakumelt ATS 290-C(C)	1430
C-0141 Poldi Kaplor	640	C-0147 Jessop G.39 (Cast)	1695	C-0151 Vakumelt ATS 331-C(C)	746
C-0141 Poldi L-AKR	641	C-0147 Jessop G.42B	625	C-0151 Vakumelt ATS 340-G(C)	893
C-0141 Poldi L-AKRD	642	C-0147 Jessop GB.18	522	C-0151 Vakumelt ATS 361-C(C)	1175
C-0142 Alloy MC-102	1603	C-0147 Jessop R-22	454	C-0151 Vakumelt ATS 381-C(C)	1379
C-0143 Thermax 75	1690	C-0147 Jessop G.46	257	C-0151 Vakumelt ATS 385 LC-G	1240
C-0143 Thermax 90	1060	C-0147 Jessop -Saville C.64 (C)	1465	C-0151 Vakumelt ATS 391-C(C)	1371
C-0144 Bofors RCT3	436	C-0147 Jessop -Saville C.94	1438	C-0151 Vakumelt 380-G (Cast)	1289
C-0144 Bofors 2RO46	29	C-0147 Jessop-Saville H.48	448	C-0152 Croloy 15-15N	355
C-0147 C.101	661	C-0147 R.20	468	C-0152 Thermex 4876	202
C-0147 C.103	1511	C-0147 R.22 (Cast)	470	C-0152 Thermoelit ATS 15	343
C-0147 C.104 (Cast)	1462	C-0147 R.45	469	C-0152 Thermon 4911 Vakumelt	514
C-0147 G.18B	520	C-0147 R.47	467	C-0152 Thermon 4951	1684
C-0147 G.18B	646	C-0147 Saville C.18B	523	C-0152 Thermon 4952 Vakumelt	1009
C-0147 G.19 (Cast)	647	C-0147 Saville G.2	312	C-0152 Thermon 4980 Vakumelt	123
C-0147 G.2	311	C-0148 Alloy 800	193	C-0152 Thermon 4981	342
C-0147 G.21	465	C-0148 Alloy 800H	158	C-0152 Ventos 4952 Vakumelt	1010
C-0147 G.32	1900	C-0148 Esshete 1250	329	C-0152 Ventos 4959 Vakumelt	1085
C-0147 G.34 (Cast)	1902	C-0148 Jethete M.151	292	C-0153 Novoform 125A	1797
C-0147 G.39 (Cast)	1680	C-0148 Jethete M.152	282	C-0153 Thermalloy 40A2	456
C-0147 C.4	462	C-0148 Jethete M.153	291	C-0153 Thermalloy 50CQ	327
C-0147 G.42B	623	C-0148 Jethete M.154	281	C-0153 Vaccutherm C 263	749
C-0147 G.42B	624	C-0148 Jethete M.210	633	C-0153 Vaccutherm HX	1537
C-0147 C.44 (Cast)	1131	C-0150 UMCO-51	1918	C-0153 Vaccutherm 5-34	273
C-0147 C.54 (Cast)	1682	C-0151 AMS 5380 (Cast)	1398	C-0153 Vaccutherm 5-38	283
C-0147 C.55 (Cast)	1149	C-0151 ATS 105-C (Cast)	569	C-0153 Vaccutherm 6-18	410
C-0147 G.63	1627	C-0151 ATS 113-C (Cast)	1794	C-0153 Vaccutherm 7-20	71
C-0147 G.64 (Cast)	1475	C-0151 ATS 114-C (Cast)	1806	C-0153 Vaccutherm 7-20	112
C-0147 C.67 (Cast)	1474	C-0151 ATS 114-G SO 1 (Cast)	1727	C-0153 Vaccutherm 718	768
C-0147 C.68	95	C-0151 ATS 17-G (Cast)	441	C-0153 Vaccutherm 8-11	599
C-0147 C.70	1281	C-0151 ATS 200-C (Cast)	670	C-0153 Vaccutherm 8-11H	559
C-0147 G.73 (Cast)	1310	C-0151 ATS 241-C (Cast)	891	C-0153 Vaccutherm 8-13	1830
C-0147 C.76 (Cast)	862	C-0151 ATS 270	776	C-0153 Vaccutherm 8-13H	1786
C-0147 G.82	1194	C-0151 ATS 281-G (Cast)	1392	C-0153 Vaccutherm 80	990
C-0147 G.83	1184	C-0151 ATS 290 LC-C (Cast)	1399	C-0153 Vaccutherm 9-1	1653
C-0147 G.84 (Cast)	1406	C-0151 ATS 290-C (Cast)	1431	C-0153 Vaccutherm 7-20	639
C-0147 G.85	1052	C-0151 ATS 301-G (Cast)	668	C-0154 Ford-406	1309
C-0147 G.87	1901	C-0151 ATS 331-G (Cast)	747	C-0155 TDNICR	1696
C-0147 C.9	466	C-0151 ATS 340-G (Cast)	894	C-0156 Hastelloy	C-276
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C-0147 G.95	1154	C-0151 ATS 381-G (Cast)	1380	C-0160 RGT O	1640
C-0147 CB.18	524	C-0151 ATS 385 LC-C (Cast)	1241	C-0160 RGT 24	1791
C-0147 H.46	463	C-0151 ATS 391-C (Cast)	1372	C-0160 RGT1	99
C-0147 H.48	447	C-0151 ATS-C (Cast)	346	C-0160 RNO MO V	270
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C-0160 RTG 6	857	C-0161 UCAR Alloy X-750	851	C-0170 Phoenix R 825	69
C-0160 RTG 8, 2.4662 LN	151	C-0161 UCAR Alloy 11	497	X-0170 R75 (NICK 20 Ti)	1652
C-0160 RTG 9	221	C-0161 UCAR Alloy 16	211	C-0170 R 800 H	162
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C-0160 RTG 501	1626	C-0161 UCAR Alloy 90	1076	C-0175 Almenit 4989	1789
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C-0161 UCAR Alloy C-242 (C)	1550	C-0164 B-1952 (Cast)	1236	C-0179 Tophet 90	1081
C-0161 UCAR Alloy C-263	731	C-0164 B-1964 (Cast)	1235	C-0184 Corecid 4923	267
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C-0161 UCAR Alloy IN-100 (C)	1370	C-0169 Capi 201 (Cast)	1783	C-0184 Coreloy 4967	1832
C-0161 UCAR Alloy IN-102	721	C-0169 Capi 202 (Cast)	1888	C-0184 Coreloy 4969	1082
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C-0161 UCAR Alloy IN-731 (C)	1361	C-0169 Capi 219 (Cast)	1875	C-0186 Leste 4960	528
C-0161 UCAR Alloy IN-738 (C)	1217	C-0169 Capi 221 (Cast)	1801	C-0186 Leste 4967	1835
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C-0161 UCAR Alloy M-21	1390	C-0169 Capi 901 (Cast)	455	C-0186 Leste 4971 (W),(C)	603
C-0161 UCAR Alloy M-22	1449	C-0169 Capi 960 (Cast)	451	C-0186 Leste 4977	560
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C-0161 UCAR Alloy R-95	1226	C-0169 Spin 205 (Cast)	1868	C-0188 CBL 32	1086
C-0161 UCAR Alloy U-500	1178	C-0169 Spin 209 (Cast)	1829	C-0188 CBL 34	1333
C-0161 UCAR Alloy U-520	1136	C-0169 Spin 219 (Cast)	1876	C-0188 HW MO V 2	1334
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AECMA NI-P 96-HT	1073	AIR 9165-021	512	AMS 5382 (Cast)	1729
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G:KhN60Yu	1198	G:KhN20N80TYu	801	ISO 11(Draft)	70
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G:KhN67VHTYu	910	G:KhN25N60V15	785	ISO 25(Draft)	1545
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G:KhN70VMTYuB	1179	G:LK4	1883	JS SUH 661	602
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